Title: **Towards a Proposal to encode Egyptian Hieroglyphs in Unicode**
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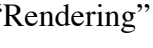
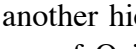
1. Summary. Efforts to encode Hieroglyphs in Unicode go back a long time; see Everson 1997, Everson 1999, Cook *et al* 2005. Most recently the authors have collaborated to create a source database called *UniKemet* containing 1191 characters from Gardiner's sign-lists and related sources, together with a font based on Bob Richmond's InScribe font which we have used to create the proposed code table given in this document, using the code table formatting tool Unibook (**http://www.unicode.org/ unibook**). In the process we have identified a number of issues that need to be resolved before a complete proposal can be submitted to the Standards committees involved (the Unicode Technical Committee and and ISO/IEC JTC1/SC2/WG2). There is a symposium on the use of IT in Egyptology which will take place at the same time as the next UTC in early August. We are planning to attend, present this document, and get the needed input from attending Egyptologists. What follows here is a draft of the text on which the formal proposal will be based, presented for comment.

2. Introduction. Hieroglyphic writing seems to have appeared in Egypt at the end of the fourth millennium BCE. The writing system is pictographic: the glyphs represent tangible objects, most of which modern scholars have been able to identify; a great many of them are easily recognizable even to non-specialists. Egyptian Hieroglyphs represent people and animals, parts of the bodies of people and animals, clothing, tools, vessels, and so on. Hieroglyphs were used to write Egyptian for more than 3,000 years retaining characteristic features such as use of colour and detail in the more elaborated expositions. Throughout the Old Kingdom, the Middle Kingdom, and the New Kingdom, between 700 and 1,000 hieroglyphs were in regular use. During the Greco-Roman period, the number of variants, as distinguished by some modern scholars, grew to somewhere between 6,000 and 8,000. Hieroglyphs were carved in stone, painted on frescos, and could also be written with a reed stylus, though this cursive writing soon became standardized in what is called *hieratic* writing. Demotic then Coptic replaced the earlier scripts for much practical writing of Egyptian but hieroglyphs and hieratic continued in use until the fourth century CE. On the Gateway of Hadrian in the Temple complex at Philae an inscription dated 0394-08-24 has been found, and this is thought to be the last example of Ancient Egyptian writing in hieroglyphs.

3. Structure. Egyptian Hieroglyphs made use of 24 letters comprising a true alphabet, of which the modern alphabetic order is *ꜣ, i, y, ꜥ, w, b, p, f, m, n, r, h, ḥ, ḫ, ẖ, s, š, ḳ, k, g, t, ṯ, d, ḏ* in Alan Gardiner's transcription. In addition to the basic alphabet, the script made use of a fairly large number of "biliterals" and "triliterals" which represented sequences of two or three consonants, examples of these are biliterals *ꜣꜥ, wꜥ, bꜥ, pꜥ, mꜥ, ḥꜥ, ḫꜥ, ẖꜥ, sꜥ, šꜥ, kꜥ, tꜥ, ṯꜥ, ḏꜥ, mỉ, tỉ, wꜣ, hꜣ, ꜥw, ỉw, mw, nw, rw, ḥw, ḫw, sw, šw, ḏw, ꜥb, nb, wp, kp, ỉm, nm, ḥm, km, gm, tm, in, wn, mn, nn, ḥn, ḫn, sn, šn* and triliterals *ꜣḥꜣ, ḫpr, sḏm, nfr, ꜣnḫ, ḥtp*; there are many more. In addition to the phonetic characters, Egyptian Hieroglyphs made use of a very large number of logographic characters (called "logograms" or "ideograms" by Egyptologists), some of which could be read as a word, and some of which had only a semantic "determinative" function, to enable the reader to distinguish between words which were otherwise written the same, thus: *hb* 'enter', *hb* 'ibis', and *hb* 'plough'. Sometimes a number of characters were used redundantly. For example, *gbꜣ* 'arm' was conventionally written  , literally *g-b-bꜣ-ꜣ-*. Within a word, characters are arranged together to form an aesthetically-pleasing arrangement within a notional square; see "Rendering" below.

4. Directionality. Characters may be written left-to-right or right-to-left, generally in horizontal lines but often (especially in monumental texts) in vertical columns. In general, directionality is easy to determine because one reads a line into the faces of the people and animals, so *rmṯ* 'people' becomes when written right-to-left. Like Old Italic, Egyptian Hieroglyphs are given strong left-to-right directionality in this proposed encoding because by far and away most Egyptian editions are published in English, French, and German and left-to-right directionality is the standard presentation mode. U+202E RIGHT-TO-LEFT OVERRIDE can be used for the presentation of right-to-left Egyptian text. In this case, as with Old Italic, the glyphs from Egyptian Hieroglyphic fonts should be mirrored from those given in the code charts.

5. Rendering. The proposed encoding of Egyptian hieroglyphs treats them simply as a set of text elements; a higher-level protocol would be required for the necessary clustering, mirroring, and rotation of signs within text. This approach works well in the context of existing encoding conventions which use a simple markup scheme to indicate such formatting. The most prominent example of this which has been developed since computers were introduced into Egyptology in the late 1970s and the early 1980s, called the *Manuel de codage* (MdC; Paris: 1988), a later "dialect" of which can be seen in van den Berg 1997. These conventions make use of ASCII characters to separate hieroglyphs and to indicate the organization of the hieroglyphs in space (that is, the position of hieroglyphs in a block). The hyphen "-" is used to separate hieroglyphic blocks; the colon ":" superposes one hieroglyph over another; the asterisk "*" is used to juxtapose two or more hieroglyphs, typically when they are a group which is superposed over or under another hieroglyph or group of hieroglyphs. So "  " will render , one way of writing the name of Osiris, and " " will render , another way of writing the same name. More complex overlapping combinations can use the ampersand "&", so " " will render . It's important to note that in *plain text* without MdC markup these will render as and . Other MdC notations are used to indicate the reversal or rotation of hieroglyphs within the LTR text stream. The application of MdC conventions to text is not, however, a plain-text process. Ordinary word-processors are not expected to be able to use MdC conventions to render Egyptian Hieroglyphs correctly. The illustration of MdC given here is not intended to be prescriptive. Other schemes have been proposed that attempt to provide greater flexibility than MdC by use of more elaborate encodings and XML and similar remarks apply. However, none has yet obtained widespread usage comparable with MdC. The Macintosh and Windows implementations (*MacScribe* and *WinGlyph*, and *Inscribe*) make use of the *Manuel de codage* conventions, as does the Wikimedia's WikiHiero PHP script.

6. Character set repertoire. The first set of hieroglyphs which should be encoded, and which is proposed here, is "the Gardiner set", consisting of Gardiner's Middle Egyptian sign-list as given in his *Egyptian Grammar* (Gardiner 1957). This is the chief source of the repertoire, supplemented by additional characters found in his font catalogues (Gardiner 1928, Gardiner 1929, Gardiner 1931, and Gardiner 1953), and a collection of signs found in the Griffith Institute's *Topographical Bibliography*, which also used the Gardiner fonts. In addition to the characters in these sources, Egyptian numeral characters, which Gardiner describes in detail but to which he does not give catalogue numbers, are also proposed, and Georg Möller's volumes on Hieratic palaeography (Möller 1909, Möller 1927, Möller 1936) are added to the source database in order to instantiate them. For a discussion of that database and how it relates to future additions to the standard, see "The UniKemet database and future expansion of the repertoire" below.

7. Character names. Egyptian hieroglyphic characters are traditionally designated in a number of ways:

- by complex description: GOD WITH HEAD OF IBIS, DESERT HARE, VULTURE-GODDESS NEKHBET AND COBRA-GODDESS EDJO ON BASKETS, OWL, LAPWING WITH WINGS TWISTED ROUND ONE ANOTHER, QUAIL CHICK (these are Gardiner's own descriptions)

- by standardized sign number: C3, E34, G16, G17, G24, G43
- by conventional sound which works for only a minority of characters: *wn*, *m*, *w*

The most convenient way of naming the characters is to identify them with their standard Egyptological catalogue numbers, since otherwise the character names would be picturesque but rather long. The name EGYPTIAN HIEROGLYPH E034 refers uniquely and unambiguously to the DESERT HARE character used for the sound *wn*. Character names are padded with zeros here for two reasons. First, they will tend to sort correctly even when "smart" sorting algorithms are not available. Second, the use of zeros offers a mechanism for distinguishing UCS character names from the many extant naming schemes for Egyptian, since formally-standardized UCS characters will have a different status than font collections like Hieroglyphica (Grimal *et al*. 1993 and 2000) or other works. Gardiner uses A44 for a king of Upper Egypt with flagellum; Collier and Manley use A44 for an arm holding the *nḥbt*-wand; Möller uses A44 for a soldier with bow and quiver. The UCS names A044, D045, and A012 uniquely identify the characters and also identifies the designation *as* a UCS name.

As is traditional, Egyptian Hieroglyphs are classified according to letters of the alphabet, so A000 is "Man and his occupations", B000 is "Woman and her occupations", C000 is "Anthropomorphic deities", D000 is "Parts of the human body", E000 is "Mammals", F000 is "Parts of mammals", G000 is "Birds", H000 is "Parts of birds", I000 is "Amphibious animals, reptiles, etc.", K000 is "Fishes and parts of fishes", L000 is Invertebrata and lesser animals", M000 is "Trees and plants", N000 is "Sky, earth, water", O000 is "Buildings, parts of buildings, etc.", P000 is "Ships and parts of ships", Q000 is "Domestic and funerary furniture", R000 is "Temple furniture and sacred emblems", S000 is "Crowns, dress, staves, etc.", T000 is "Warfare, hunting, butchery", U000 is "Agriculture, crafts, and professions", V000 is "Rope, fibre, baskets, bags, etc.", W000 is "Vessels of stone and earthenware", X000 is "Loaves and cakes", Y000 is "Writings, games, music", Z000 is "Strokes, signs derived from Hieratic, geometrical features", and AA000 is used for "Unclassified" signs. (Note: some may have been classified since the category was assigned but we have not re-assigned them.) In Gardiner 1929, 1931, and 1953 a section Ff "Signs for transcription from Hieratic" appears, but as these are identified as variants of other characters, they are named accordingly here (so G1928:95:Ff2 is a "substitute for V7", so it is encoded as V007-A). In Gardiner 1953, a section Nn is given to represent the nomes of Egypt, with L prefixed to the number for the nomes of Lower Egypt, and U for the nomes of Upper Egypt. All of those characters contain N024, which indicates land marked out with irrigation runnels, which is presumably why Gardiner used the notation "Nn" for the nomes. Gardiner gives NnL1 for ; the naming convention here calls it NL001 rather than NNL001. An aesthetic complaint might be made about O000, but Gardiner used the letter O in his classification and we maintain that the leading zero is a useful convention for the reasons given above.

Gardiner identified some variants of characters by unique catalogue numbers, and others by extending adding one or two asterisks (and in one instance *a* and *a*'). UCS naming convention does not allow the use of asterisks, but it is traditional to add letters of the alphabet. In the convention we employ, these letters are added to the base name following a hyphen. Thus Gardiner's G7, G7*, and G7** are G007, G007-A, and G007-B here respectively. We have found that the use of the hyphen facilitates reading the names list, and like the leading zeros, helps to distinguish the UCS character names from other conventions. Letters for variants are to be added serially as the Egyptian repertoire is expanded.

8. Numbers. Gardiner lists only 1, 2, and 3 with catalogue numbers in his *Egyptian Grammar*; these signs fulfill other functions apart from that of numeral. He describes numbers in detail in §§259–266. Möller's three volumes on Hieratic palaeography (1909, 1927, 1936) do give catalogue numbers (based on typographer Ferdinand Theinhardt's system) and those references have been added to the database to

instantiate the numbers encoded. Between Möller and the in-text examples of numbers given in Gardiner, 96.6% of the number-forms (the 10s, 100s, 1000s, and 10,000s) are attested in a way which can be sourced by page number in the source database. There are 87 such numbers, and only three of them have no page-reference sources in Gardiner or Möller: 𓎆 D070-A ‘4 heqat measures’, 𓎇 D075 ‘9 heqat measures’, and 𓍢 V042-A ‘400’ in one of its configurations. And D070-A is referenced in Allen 1999:102. Different configurations are considered unique text-elements and are encoded as characters, because it is these elements which are used for hieratic transcription and manipulated by (for instance) the MdC. Thus 𓏼 Z020, 𓏽 Z020-A, 𓏾 Z020-B, and 𓏿 Z020-C, are all encoded though thay all mean ‘9’, the last two of these are are used in writing dates; Allen 1999 gives another form 𓐀 Z020-D. Higher-level protocols could, in principle, be used to generate Egyptian numbers out of their constituent parts, but there would seem to be little advantage to doing this. In such a case, a number like 𓆼𓍢𓎇𓎆𓏼 99,999 would have to be decomposed into 45 constituent parts along with 44 elements of markup, e.g., 𓏺*𓏺*𓏺:𓏺*𓏺*𓏺:𓏺*𓏺*𓏺-𓏺*𓏺*𓏺:𓏺*𓏺*𓏺:𓏺*𓏺*𓏺-𓏺*𓏺*𓏺:𓏺*𓏺*𓏺-𓏺*𓏺*𓏺:𓏺*𓏺*𓏺:𓏺*𓏺*𓏺:𓏺*𓏺*𓏺:𓏺*𓏺*𓏺-𓏺*𓏺*𓏺:𓏺*𓏺*𓏺:𓏺*𓏺*𓏺:𓏺*𓏺*𓏺:𓏺*𓏺*𓏺. Egyptian numbers are thus encoded here along the same principles which were used in the encoding of Aegean and Cuneiform numbers.

9. Enclosures. The two principal names of the king, the nomen and praenomen, were normally written inside a cartouche: a figure representing a coil of rope, for instance 𓎛𓂋𓐍𓆑𓏏 *ꜥ3pp* ‘Apophis’. Gardiner 1957:71–76 describes the royal titulary, giving beginning and end shapes 𓍝 and 𓍞 signs in the Catalogue. The bracket-like convention of writing 〔𓂋𓐍𓆑𓏏〕 is used in the hieratic (cf. Möller 1936:51) and some modern publications. Plain text and general purpose software should likewise treat these signs as characters and not render the fully enclosed form. For some additional enclosure characters which could be added to the repertoire, see “Issues: Enclosures” below.

10. Unicode Character Properties

The Unicode Consortium maintains a set of character properties. The following excerpt from the proposed additions to the file UnicodeData.txt indicates that hieoglyphs are classified as Letter_Other (L0), that they are not combining characters, that they are Left-to-Right (L) and that they do not have decompositions or case mappings. For the purposes of line and word breaking as well as identifiers they would be treated like alphabetics.

```
13000;EGYPTIAN HIEROGLYPH A001;Lo;0;L;;;;;N;;;;;
13001;EGYPTIAN HIEROGLYPH A002;Lo;0;L;;;;;N;;;;;
13002;EGYPTIAN HIEROGLYPH A003;Lo;0;L;;;;;N;;;;;
...
1341F;EGYPTIAN HIEROGLYPH AA030;Lo;0;L;;;;;N;;;;;
13420;EGYPTIAN HIEROGLYPH AA031;Lo;0;L;;;;;N;;;;;
13421;EGYPTIAN HIEROGLYPH AA032;Lo;0;L;;;;;N;;;;;
```

11. Ordering. Deterministic ordering of actual hieroglyphs is something that is probably unknown to the Egyptological tradition, since Egyptologists have tended to sort the transliterations. However, an alphabetic order does exist (*ꜣ, i, y, ꜥ, w, b, p, f, m, n, r, h, ḥ, ḫ, ḥ̲, s, š, ḳ, k, g, t, t̲, d, d̲* as given above), and this should be the basis for ordering those characters with a phonetic reading. Determinatives without phonetic readings should probably be left in code-point order. Some experimentation and investigation of current practice will have to be undertaken before recommendations can be made, and this will be the subject of a further proposal as input to ISO/IEC 14651 and the Unicode Collation Algorithm. As an example, however, we have taken a set of words beginning in *g-* from Gardiner’s grammar and ordered the list of words there as it might be ordered according to the principles outlined above.

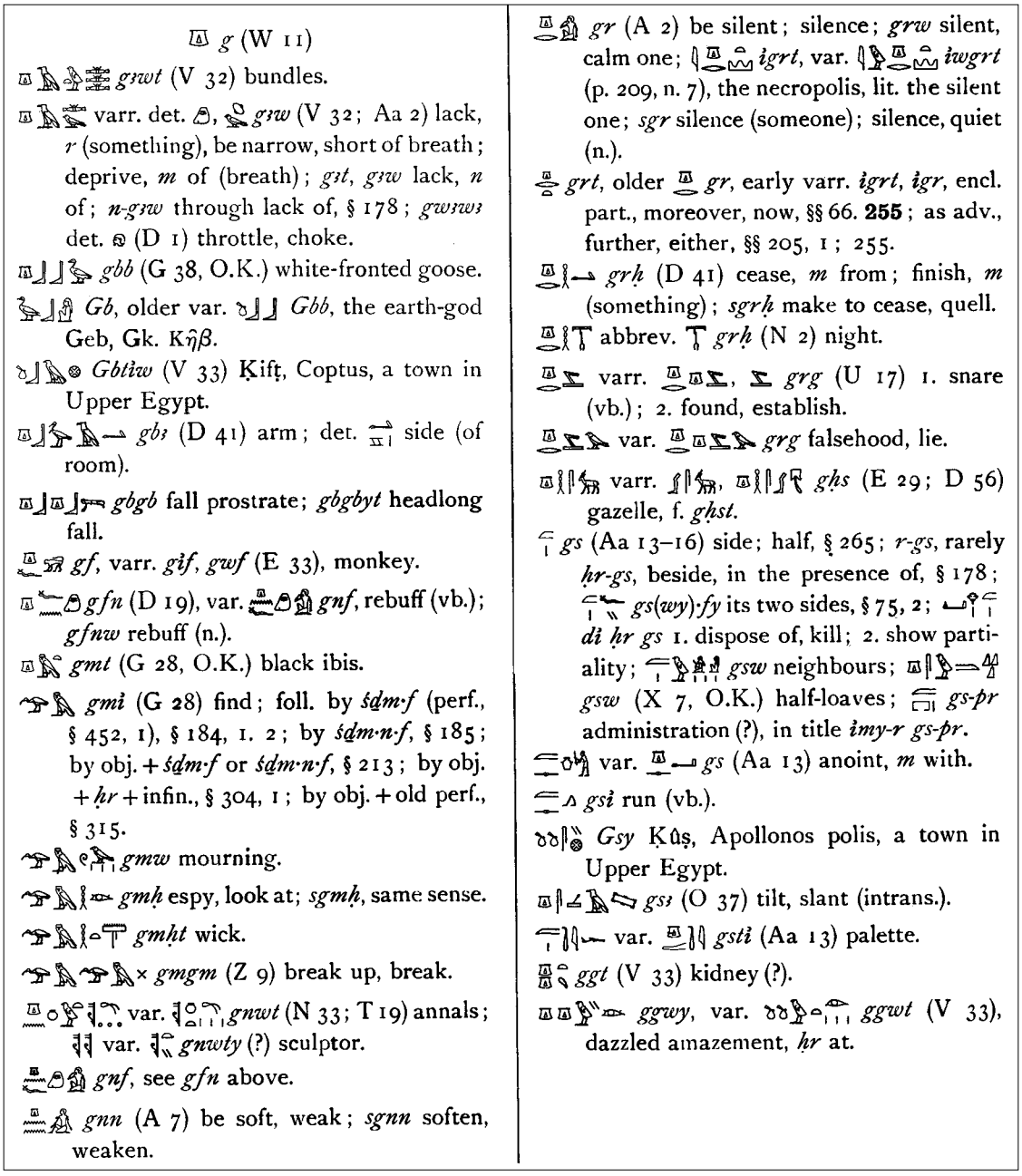

g (W 11)
gꜣwt (V 32) bundles.
varr. det. , gꜣw (V 32; Aa 2) lack, r (something), be narrow, short of breath; deprive, m of (breath); gꜣt, gꜣw lack, n of; n-gꜣw through lack of, § 178; gwꜣwꜣ det. (D 1) throttle, choke.
gbb (G 38, O.K.) white-fronted goose.
Gb, older var. Gbb, the earth-god Geb, Gk. Κῆβ.
Gbtiw (V 33) Ḳift, Coptus, a town in Upper Egypt.
gbꜣ (D 41) arm; det. side (of room).
gbgb fall prostrate; gbgbyt headlong fall.
gf, varr. gif, gwf (E 33), monkey.
gfn (D 19), var. gnf, rebuff (vb.); gfnw rebuff (n.).
gmt (G 28, O.K.) black ibis.
gmi (G 28) find; foll. by śḏm·f (perf., § 452, 1), § 184, 1. 2; by śḏm·n·f, § 185; by obj. + śḏm·f or śḏm·n·f, § 213; by obj. + ḥr + infin., § 304, 1; by obj. + old perf., § 315.
gmw mourning.
gmḥ espy, look at; sgmḥ, same sense.
gmḥt wick.
gmgm (Z 9) break up, break.
var. gnwt (N 33; T 19) annals; var. gnwty (?) sculptor.
gnf, see gfn above.
gnn (A 7) be soft, weak; sgnn soften, weaken.
gr (A 2) be silent; silence; grw silent, calm one; igrt, var. iwgrt (p. 209, n. 7), the necropolis, lit. the silent one; sgr silence (someone); silence, quiet (n.).
grt, older gr, early varr. igrt, igr, encl. part., moreover, now, §§ 66. 255; as adv., further, either, §§ 205, 1; 255.
grḥ (D 41) cease, m from; finish, m (something); sgrḥ make to cease, quell.
abbrev. grḥ (N 2) night.
varr. , grg (U 17) 1. snare (vb.); 2. found, establish.
var. grg falsehood, lie.
varr. , ghs (E 29; D 56) gazelle, f. ghst.
gs (Aa 13–16) side; half, § 265; r-gs, rarely ḥr-gs, beside, in the presence of, § 178; gs(wy)·fy its two sides, § 75, 2; dì ḥr gs 1. dispose of, kill; 2. show partiality; gsw neighbours; gsw (X 7, O.K.) half-loaves; gs-pr administration (?), in title imy-r gs-pr.
var. gs (Aa 13) anoint, m with.
gsi run (vb.).
Gsy Ḳûṣ, Apollonos polis, a town in Upper Egypt.
gsꜣ (O 37) tilt, slant (intrans.).
var. gstì (Aa 13) palette.
ggt (V 33) kidney (?).
ggwy, var. ggwt (V 33), dazzled amazement, ḥr at.

Figure 1. The words in Gardiner's grammar beginning with g-.

There are 66 different Egyptian characters on this page. Some of them have a single phonetic value, some have more than one value, and some have no value but are just determinatives. Assigning a numeric value to each of the 24 letters of the alphabet (so g = 20), and expanding biliteral and triliterals to the same values (so gb = 20-06 and grg = 20-11-20), and leaving determinatives values 25 to 52 (for this data set) so that they sort in coding order (so E029 = 35 and N002 = 39), the following results were obtained:

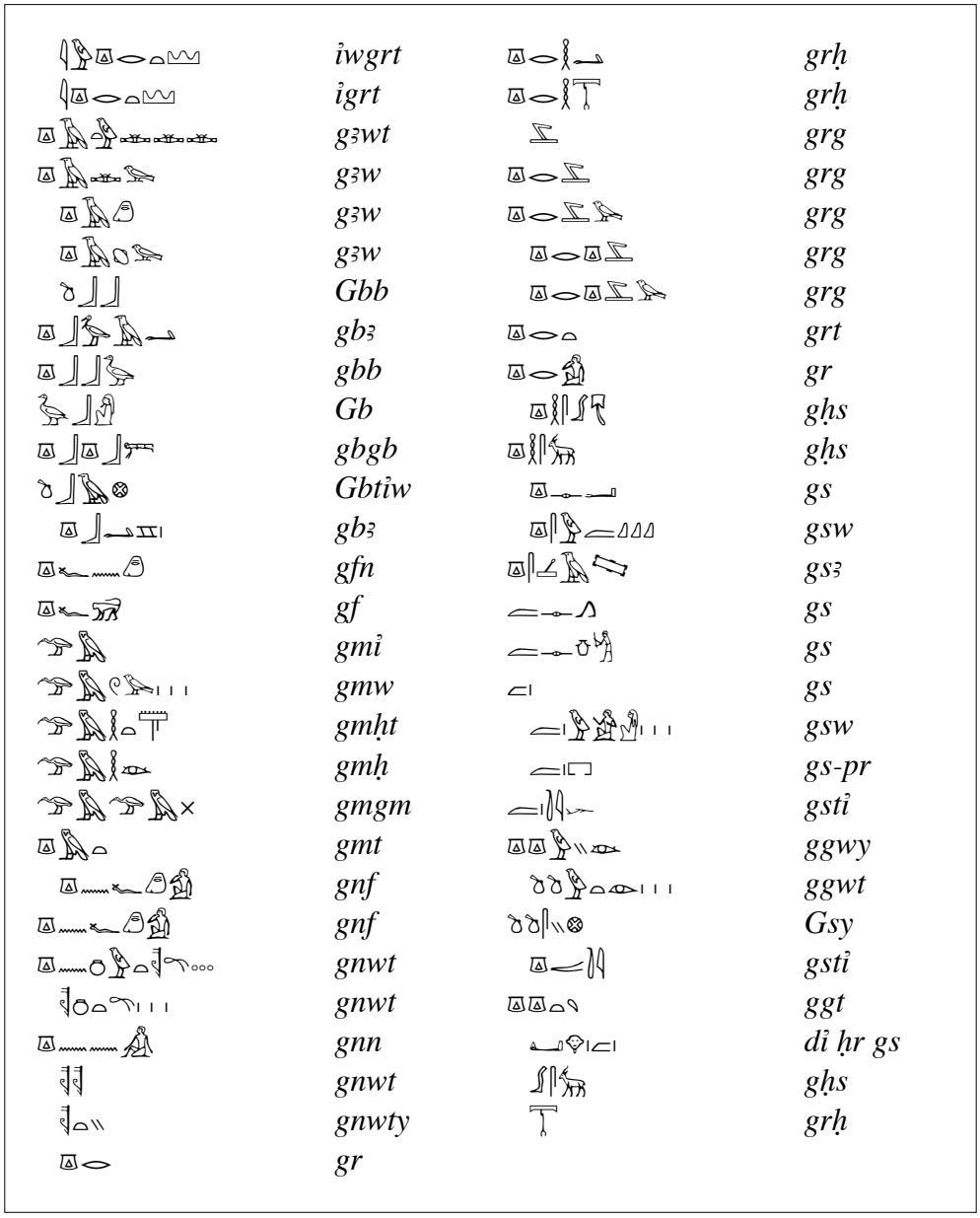


Figure 2. The words in Gardiner's grammar beginning with 𓄡 *g-*, expanded to plain-text strings of characters and run through a very basic sorting algorithm as proof-of-concept regarding the ordering of hieroglyphs as opposed to transliteration-based ordering.

In this figure, words which were not headwords in Figure 1 are indented. It can be seen that there are some differences between this order and Gardiner's, but note that Gardiner's is not algorithmically derived. For instance, Gardiner orders *gbb* < *Gb* < *Gbtỉw* < *gbꜣ* < *gbgb*; though according to Gardiner's own alphabetical order one might expect *Gb* < *gbꜣ* < *gbb* < *gbgb* < *Gbtỉw* (though perhaps Gardiner is using a root-based ordering). Our results gave *gbꜣ* < *gbb* < *Gb* < *gbgb* < *Gbtỉw*, because the underlying spelling is *g-b-(b-ꜣ)-ꜣ-*𓃀 < *g-b-b-(g-b)* < *(g-b)-b-*𓅱 < *g-b-g-b-*𓊪 < *g-b-(t-ỉ-w)-*𓅓. Something else that will need to be dealt with is the question of characters with multiple readings. T019, the harpoon head of bone 𓌙, has two readings, *gn* and *ḳs*, and it is uncertain how a decision about "primary" values will be made. Second- and third-level ordering for homophones like 𓄡 *g* and 𓎛 *g* is also something we have not attempted in this exercise. Nevertheless, it seems clear that a phonetic-based ordering for Egyptian hieroglyphs yields results which are more useful than binary ordering would yield.

12. The UniKemet database and future expansion of the repertoire. The database containing source references for the characters encoded has been named the *UniKemet* database after 𓂋𓅱𓅓 *Kmt* "Egypt"

since we considered a name like *UniHieroglyph* to be too general (given Anatolian Hieroglyphs, Maya Hieroglyphs, and Mi'kmaq Hieroglyphs). This database provides the means for Egyptologists to work with ISO/IEC JTC1/SC2/WG2 and with the Unicode Consortium to add Egyptian Hieroglyphs to the standard in future. Its structure is relatively straightforward; it contains the following fields:

Hex	The proposed U+1xxxx character code.
Name	The catalogue name of the character, such as A001, M013.
G1957	Citation from Gardiner 1957, giving page number and designation.
G1928	Citation from Gardiner 1928, giving page number and designation.
G1929	Citation from Gardiner 1929, giving page number and designation.
G1931	Citation from Gardiner 1931, giving page number and designation.
G1953	Citation from Gardiner 1953, giving page number and designation.
GITB	Citation from the Griffith Insititute *Topographical Bibliography*, giving volume, page number, and designation.
M1909	Citation from Möller 1909, giving page number and designation (only for numbers so far, here and for M1927 and M1936).
M1927	Citation from Möller 1927, giving page number and designation.
M1936	Citation from Möller 1936, giving page number and designation.
A1999	Citation from Allen 1999, giving page number and designation.
Uname	Calculation field that adds EGYPTIAN HIEROGLYPH to the Name field to produce the UCS names list.
Note	Notes which assist in the creation of the UCS names list.
Amd	A field which indicates the block or amendment into which a character is (to be) encoded, to assist in sorting the characters in order to produce the names list.
C2005	A temporary field containing the assignments in Richard Cook's L2/05-311, to assist members of the UTC who have reviewed that document in comparing it with the present document.

The intent of this database is that it will be a standard repository of those Egyptian characters which specialists deem suitable for formal encoding. Its citations are specific to a printed source, giving page number and an identifying designation given on that page. An example of a hieroglyphic number which is attested in Gardiner as well as in Möller which will show how the extension in the future beyond the Gardiner set will work. Character 𓏼 Z020 is one of the characters used for the number 9 (there are three others). It is attested in Gardiner and in Möller. G1957:197:9 means that it is attested in Gardiner 1957 on page 197 as "9" (since he did not assign a catalogue number to it). It is also attested in Möller as M1909:59:AAa622 which means it is in Möller 1909 on page 59 in section "AA" subsection "a" with catalogue number 622. The full source citation would be "G1957:197:9" though at present the content of the G1957 field in the database is simply "197:9" because each source has its own field. In future, when work for additions to the repertoire begins on materials from other sources, a unification process will obtain where existing coded characters are first mapped to the content of those sources. Then we will be able to look at what is left over as sources for further standardization. For example, 𓇼 N013 'half-month festival' and 𓇽 N014 *sbꜣ* 'star' are found in G1957:545:N13 and G1928:31:N13; when we look at Allen 1999 for additions to the repertoire, we first add A1999:436:N13 and A1999:436:N14, to the database, and then can add 𓇾 A1999:437:N44 as N044 *ꜣbd* 'month'. Möller has many characters not found in other sources. For instance, standard Middle Egyptian writes 𓄡𓃀 *pnw* 'mouse', but Möller cites 𓄡𓃀𓃀 'mice' and so in due course the new character 𓃀 M1909:12:E131 can be added to the database; if it were being standardized as an addition to the repertoire here, it would be assigned the number E043. A future expansion of the database might include other fields such as Faulkner.

A printout of the UniKemet database is attached at the end of this document; an electronic version of this draft can be found at in a tab-delimiited text file at **http://www.evertype.com/standards/iso10646/pdf/unikemet-mappings-20060719.tab**. This file should be used for review only, and not for development as its contents will certainly change.

13. Issues. Following here are a set of questions specifically for the Egyptologists who will review this document. They deal with the question of additions of characters which are not attested explicitly in the Gardiner set.

13.1. Issue: The Allen sign list. In the English-language tradition of Egyptology, it is probably James Allen's grammar of Middle Egyptian which is the most popular successor to Gardiner's *Egyptian Grammar* as a textbook. We have reviewed the characters in Allen's sign list, and have found 96 characters additional to those in Gardiner's lists. We have given these in a separate block titled "Egyptian Hieroglyphs Extended-A". Should these be encoded at this time? Should they be encoded in a separate block, or folded into the main block? Several of them are numbers and it would seem reasonable for these, at least, to be added alongside the others.

13.2. Issue: Enclosures. A number of characters for the completion of enclosures should at some stage be added to the repertoire. The *ḥwt* enclosure used to describe houses, temples, and tombs is based on O006 𓉔, the rectangular enclosure seen in plan. As a cartouche-like enclosure, it may have differ in its beginning and final forms. When O006-A 𓉐 begins a *ḥwt* enclosure, O006-D 𓉓 or O006-E 𓉕 may complete it; when O006-B 𓉑 or O006-C 𓉒 begins a *ḥwt* enclosure, O006-F 𓉖 may complete it. The *srḫ* or *serekh* enclosure is based on O033 𓉼, a banner. A *serekh* enclosure is begun with O006-A 𓉐, and completed with O033-A 𓊅. Finally, while the cartouche proper normally begins with V011-A 𓍿 and ends with V011-B 𓎁, it sometimes ends with V011-C 𓎀. We have given these in a separate block titled "Egyptian Hieroglyphs Extended-B". Should these be encoded at this time? Should they be encoded in a separate block, or folded into the main block?

13.3. Issue: Positional variants without Gardiner catalogue numbers. A number of positional variants without catalogue numbers were listed in the Gardiner 1957. Some of these may be worth encoding, but some may not. The down-facing fly 𓆑 L003-A, for instance, is arguably an error occurring only in Gardiner's Index to his sign-list; 𓆐 L003 seems to be the only form found elsewhere. The two moons 𓇋 N011-A and 𓇌 N012-A are said by Gardiner to be used as determinatives; does this mean that 𓇋 N011 and 𓇌 N012 are not? Is MdC rotation sufficient to distinguish these as text elements? The same can be said for the high-frequency variants 𓏏 O029-A and 𓏌 Y001-A against the Gardiner-numbered 𓊃 O029 and 𓏌 Y001. We have given these in a separate block titled "Egyptian Hieroglyphs Extended-C". Should some or all or none of these be encoded at this time? Should they be encoded in a separate block, or folded into the main block?

13.4. Issue: Positional variants with Gardiner catalogue numbers. Gardiner gave catalogue numbers to 𓁷 C002-B, 𓁸 C002-C, 𓁹 C013, 𓁺 C015. C002-B was used in the royal name 𓎛𓇓𓐍𓊪𓏏𓏏𓏏 *Stḫ nḫt mrr ʾImn Rᶜ* 'Setnakht beloved of Amun Ra', attested in the *Topographical Bibliography* (Vol. I, Pt. II., p. 527). It could be argued that reversed characters like these should not be encoded because MdC markup is normally used for reversing and rotating characters. This is not the always the case of course. D054 𓂝 'movement' contrasts with D055 𓂞 'backwards'; P001 𓇾 'boat' contrasts with P001-A 𓇿 as used in 𓊹𓇿 *pnᶜ* 'upset, overturn'. Some other characters are distinguished as "low" glyphs needed in his font: compare 𓄿 E034 and 𓄿 E034-A, 𓅆 F013 and 𓅆 F013-A, 𓆓 G036 and 𓆓 G036-A, 𓆓 G037 and 𓆓 G037-A, 𓈙 N025 and 𓈙 N025-A, 𓎟 V030 and 𓎟 V030-A, and 𓏞 W003 and 𓏞 W003-A. Should these characters be retained in the standard for completeness, because Gardiner assigned catalogue

numbers to them? Is retaining these in order to have a 1:1 representation as characters of all signs with catalog numbers an important goal, or should the encoding assume modern font technology where such forms would be represented by unnamed glyphs? How are these used? Do they occur as such in existing data so that cross-mapping to Unicode is an important issue?

13.5. Issue: Numbers. The encoding for numbers proposed has met some opposition on the grounds that these represent precomposed characters. In this situation it would be useful to hear from practioners and people familiar with other efforts to encode the numbers. Are there issues with transcoding from existing data collections.

13.6. Miscellaneous issues: Gardiner distinguishes 𓋔 N034 from 𓋕 N034-A: G1957:545:N34, G1928:31:N34, G1931:246:N34*, and G1953:4:N34*. Allen distinguishes 𓋖 N034-B: A1999:437:N34a. Is this correct? Most of Gardiner's "Ff" series, "Signs for transcription from Hieratic" are clearly identified as variants of other signs, and have been encoded as such. Two of them, 𓃀 FF008 and 𓃁 FF008-A have not yet been attested with certainty, but when they are they should be renamed and filed next to what they are variants of. Should Old Kingdom signs such as 𓎼 and 𓎽, found at G1957:479:M3, be encoded at this time or left for future standardization?

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Wikimedia's WikiHiero PHP script **http://meta.wikimedia.org/wiki/WikiHiero**

1300 1301 1302 1303 1304 1305 1306 1307 1308 1309 130A 130B 130C 130D
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1 13001 13011 13021 13031 13041 13051 13061 13071 13081 13091 130A1 130B1 130C1 130D1
2 13002 13012 13022 13032 13042 13052 13062 13072 13082 13092 130A2 130B2 130C2 130D2
3 13003 13013 13023 13033 13043 13053 13063 13073 13083 13093 130A3 130B3 130C3 130D3
4 13004 13014 13024 13034 13044 13054 13064 13074 13084 13094 130A4 130B4 130C4 130D4
5 13005 13015 13025 13035 13045 13055 13065 13075 13085 13095 130A5 130B5 130C5 130D5
6 13006 13016 13026 13036 13046 13056 13066 13076 13086 13096 130A6 130B6 130C6 130D6
7 13007 13017 13027 13037 13047 13057 13067 13077 13087 13097 130A7 130B7 130C7 130D7
8 13008 13018 13028 13038 13048 13058 13068 13078 13088 13098 130A8 130B8 130C8 130D8
9 13009 13019 13029 13039 13049 13059 13069 13079 13089 13099 130A9 130B9 130C9 130D9
A 1300A 1301A 1302A 1303A 1304A 1305A 1306A 1307A 1308A 1309A 130AA 130BA 130CA 130DA
B 1300B 1301B 1302B 1303B 1304B 1305B 1306B 1307B 1308B 1309B 130AB 130BB 130CB 130DB
C 1300C 1301C 1302C 1303C 1304C 1305C 1306C 1307C 1308C 1309C 130AC 130BC 130CC 130DC
D 1300D 1301D 1302D 1303D 1304D 1305D 1306D 1307D 1308D 1309D 130AD 130BD 130CD 130DD
E 1300E 1301E 1302E 1303E 1304E 1305E 1306E 1307E 1308E 1309E 130AE 130BE 130CE 130DE
F 1300F 1301F 1302F 1303F 1304F 1305F 1306F 1307F 1308F 1309F 130AF 130BF 130CF 130DF

130E 130F 1310 1311 1312 1313 1314 1315 1316 1317 1318 1319 131A 131B
0 130E0 130F0 13100 13110 13120 13130 13140 13150 13160 13170 13180 13190 131A0 131B0
1 130E1 130F1 13101 13111 13121 13131 13141 13151 13161 13171 13181 13191 131A1 131B1
2 130E2 130F2 13102 13112 13122 13132 13142 13152 13162 13172 13182 13192 131A2 131B2
3 130E3 130F3 13103 13113 13123 13133 13143 13153 13163 13173 13183 13193 131A3 131B3
4 130E4 130F4 13104 13114 13124 13134 13144 13154 13164 13174 13184 13194 131A4 131B4
5 130E5 130F5 13105 13115 13125 13135 13145 13155 13165 13175 13185 13195 131A5 131B5
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8 130E8 130F8 13108 13118 13128 13138 13148 13158 13168 13178 13188 13198 131A8 131B8
9 130E9 130F9 13109 13119 13129 13139 13149 13159 13169 13179 13189 13199 131A9 131B9
A 130EA 130FA 1310A 1311A 1312A 1313A 1314A 1315A 1316A 1317A 1318A 1319A 131AA 131BA
B 130EB 130FB 1310B 1311B 1312B 1313B 1314B 1315B 1316B 1317B 1318B 1319B 131AB 131BB
C 130EC 130FC 1310C 1311C 1312C 1313C 1314C 1315C 1316C 1317C 1318C 1319C 131AC 131BC
D 130ED 130FD 1310D 1311D 1312D 1313D 1314D 1315D 1316D 1317D 1318D 1319D 131AD 131BD
E 130EE 130FE 1310E 1311E 1312E 1313E 1314E 1315E 1316E 1317E 1318E 1319E 131AE 131BE
F 130EF 130FF 1310F 1311F 1312F 1313F 1314F 1315F 1316F 1317F 1318F 1319F 131AF 131BF

131C 131D 131E 131F 1320 1321 1322 1323 1324 1325 1326 1327 1328
0 131C0 131D0 131E0 131F0 13200 13210 13220 13230 13240 13250 13260 13270 13280
1 131C1 131D1 131E1 131F1 13201 13211 13221 13231 13241 13251 13261 13271 13281
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3 131C3 131D3 131E3 131F3 13203 13213 13223 13233 13243 13253 13263 13273 13283
4 131C4 131D4 131E4 131F4 13204 13214 13224 13234 13244 13254 13264 13274 13284
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6 131C6 131D6 131E6 131F6 13206 13216 13226 13236 13246 13256 13266 13276 13286
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9 131C9 131D9 131E9 131F9 13209 13219 13229 13239 13249 13259 13269 13279 13289
A 131CA 131DA 131EA 131FA 1320A 1321A 1322A 1323A 1324A 1325A 1326A 1327A 1328A
B 131CB 131DB 131EB 131FB 1320B 1321B 1322B 1323B 1324B 1325B 1326B 1327B 1328B
C 131CC 131DC 131EC 131FC 1320C 1321C 1322C 1323C 1324C 1325C 1326C 1327C 1328C
D 131CD 131DD 131ED 131FD 1320D 1321D 1322D 1323D 1324D 1325D 1326D 1327D 1328D
E 131CE 131DE 131EE 131FE 1320E 1321E 1322E 1323E 1324E 1325E 1326E 1327E 1328E
F 131CF 131DF 131EF 131FF 1320F 1321F 1322F 1323F 1324F 1325F 1326F 1327F 1328F

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3	13293	132A3	132B3	132C3	132D3	132E3	132F3	13303	13313	13323	13333	13343	13353
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6	13296	132A6	132B6	132C6	132D6	132E6	132F6	13306	13316	13326	13336	13346	13356
7	13297	132A7	132B7	132C7	132D7	132E7	132F7	13307	13317	13327	13337	13347	13357
8	13298	132A8	132B8	132C8	132D8	132E8	132F8	13308	13318	13328	13338	13348	13358
9	13299	132A9	132B9	132C9	132D9	132E9	132F9	13309	13319	13329	13339	13349	13359
A	1329A	132AA	132BA	132CA	132DA	132EA	132FA	1330A	1331A	1332A	1333A	1334A	1335A
B	1329B	132AB	132BB	132CB	132DB	132EB	132FB	1330B	1331B	1332B	1333B	1334B	1335B
C	1329C	132AC	132BC	132CC	132DC	132EC	132FC	1330C	1331C	1332C	1333C	1334C	1335C
D	1329D	132AD	132BD	132CD	132DD	132ED	132FD	1330D	1331D	1332D	1333D	1334D	1335D
E	1329E	132AE	132BE	132CE	132DE	132EE	132FE	1330E	1331E	1332E	1333E	1334E	1335E
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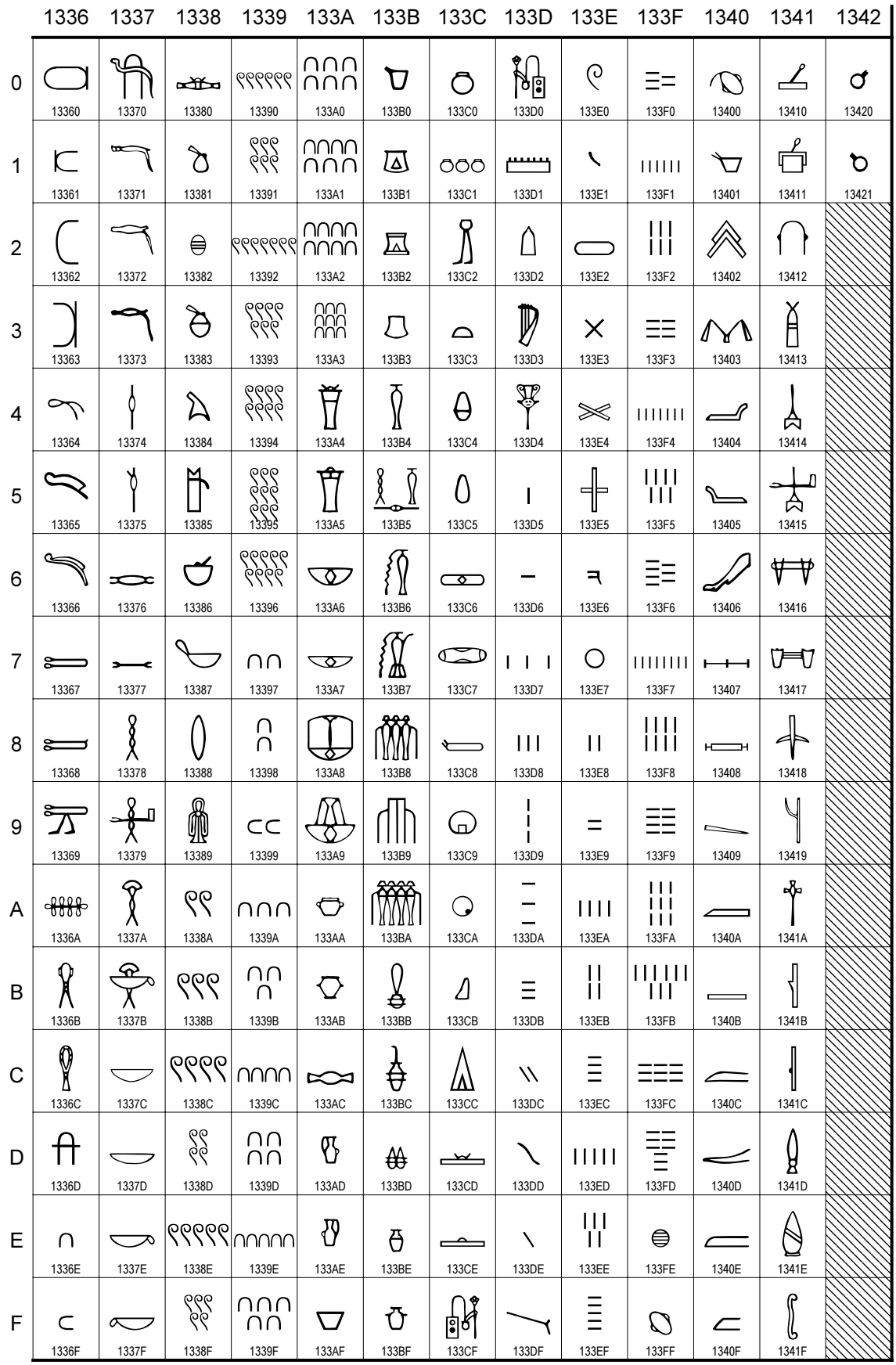
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B 1336B 1337B 1338B 1339B 133AB 133BB 133CB 133DB 133EB 133FB 1340B 1341B
C 1336C 1337C 1338C 1339C 133AC 133BC 133CC 133DC 133EC 133FC 1340C 1341C
D 1336D 1337D 1338D 1339D 133AD 133BD 133CD 133DD 133ED 133FD 1340D 1341D
E 1336E 1337E 1338E 1339E 133AE 133BE 133CE 133DE 133EE 133FE 1340E 1341E
F 1336F 1337F 1338F 1339F 133AF 133BF 133CF 133DF 133EF 133FF 1340F 1341F

Note to reviewers: This is a preliminary proposal. The code points shown are merely suggestions for a possible placement.

A. Man and his occupations

13000 EGYPTIAN HIEROGLYPH A001
13001 EGYPTIAN HIEROGLYPH A002
13002 EGYPTIAN HIEROGLYPH A003
13003 EGYPTIAN HIEROGLYPH A004
13004 EGYPTIAN HIEROGLYPH A005
13005 EGYPTIAN HIEROGLYPH A005-A
13006 EGYPTIAN HIEROGLYPH A006
13007 EGYPTIAN HIEROGLYPH A006-A
13008 EGYPTIAN HIEROGLYPH A006-B
13009 EGYPTIAN HIEROGLYPH A007
1300A EGYPTIAN HIEROGLYPH A008
1300B EGYPTIAN HIEROGLYPH A009
1300C EGYPTIAN HIEROGLYPH A010
1300D EGYPTIAN HIEROGLYPH A011
1300E EGYPTIAN HIEROGLYPH A012
1300F EGYPTIAN HIEROGLYPH A013
13010 EGYPTIAN HIEROGLYPH A014
13011 EGYPTIAN HIEROGLYPH A014-A
13012 EGYPTIAN HIEROGLYPH A015
13013 EGYPTIAN HIEROGLYPH A016
13014 EGYPTIAN HIEROGLYPH A017
13015 EGYPTIAN HIEROGLYPH A017-A
13016 EGYPTIAN HIEROGLYPH A018
13017 EGYPTIAN HIEROGLYPH A019
13018 EGYPTIAN HIEROGLYPH A020
13019 EGYPTIAN HIEROGLYPH A021
1301A EGYPTIAN HIEROGLYPH A022
1301B EGYPTIAN HIEROGLYPH A023
1301C EGYPTIAN HIEROGLYPH A024
1301D EGYPTIAN HIEROGLYPH A025
1301E EGYPTIAN HIEROGLYPH A026
1301F EGYPTIAN HIEROGLYPH A027
13020 EGYPTIAN HIEROGLYPH A028
13021 EGYPTIAN HIEROGLYPH A029
13022 EGYPTIAN HIEROGLYPH A030
13023 EGYPTIAN HIEROGLYPH A031
13024 EGYPTIAN HIEROGLYPH A032
13025 EGYPTIAN HIEROGLYPH A032-A
13026 EGYPTIAN HIEROGLYPH A033
13027 EGYPTIAN HIEROGLYPH A034
13028 EGYPTIAN HIEROGLYPH A035
13029 EGYPTIAN HIEROGLYPH A036
1302A EGYPTIAN HIEROGLYPH A037
1302B EGYPTIAN HIEROGLYPH A038
1302C EGYPTIAN HIEROGLYPH A039
1302D EGYPTIAN HIEROGLYPH A040
1302E EGYPTIAN HIEROGLYPH A040-A
1302F EGYPTIAN HIEROGLYPH A041
13030 EGYPTIAN HIEROGLYPH A042
13031 EGYPTIAN HIEROGLYPH A042-A
13032 EGYPTIAN HIEROGLYPH A043
13033 EGYPTIAN HIEROGLYPH A043-A
13034 EGYPTIAN HIEROGLYPH A044
13035 EGYPTIAN HIEROGLYPH A045
13036 EGYPTIAN HIEROGLYPH A045-A
13037 EGYPTIAN HIEROGLYPH A046
13038 EGYPTIAN HIEROGLYPH A047
13039 EGYPTIAN HIEROGLYPH A048
1303A EGYPTIAN HIEROGLYPH A049
1303B EGYPTIAN HIEROGLYPH A050
1303C EGYPTIAN HIEROGLYPH A051
1303D EGYPTIAN HIEROGLYPH A052
1303E EGYPTIAN HIEROGLYPH A053
1303F EGYPTIAN HIEROGLYPH A054
13040 EGYPTIAN HIEROGLYPH A055
13041 EGYPTIAN HIEROGLYPH A056
13042 EGYPTIAN HIEROGLYPH A057
13043 EGYPTIAN HIEROGLYPH A058
13044 EGYPTIAN HIEROGLYPH A059
13045 EGYPTIAN HIEROGLYPH A060
13046 EGYPTIAN HIEROGLYPH A061
13047 EGYPTIAN HIEROGLYPH A062
13048 EGYPTIAN HIEROGLYPH A063
13049 EGYPTIAN HIEROGLYPH A064
1304A EGYPTIAN HIEROGLYPH A065
1304B EGYPTIAN HIEROGLYPH A066
1304C EGYPTIAN HIEROGLYPH A067
1304D EGYPTIAN HIEROGLYPH A068
1304E EGYPTIAN HIEROGLYPH A069
1304F EGYPTIAN HIEROGLYPH A070

B. Woman and her occupations

13050 EGYPTIAN HIEROGLYPH B001
13051 EGYPTIAN HIEROGLYPH B002
13052 EGYPTIAN HIEROGLYPH B003
13053 EGYPTIAN HIEROGLYPH B004
13054 EGYPTIAN HIEROGLYPH B005
13055 EGYPTIAN HIEROGLYPH B005-A
13056 EGYPTIAN HIEROGLYPH B006
13057 EGYPTIAN HIEROGLYPH B007
13058 EGYPTIAN HIEROGLYPH B008
13059 EGYPTIAN HIEROGLYPH B009

C. Anthropomorphic deities

1305A EGYPTIAN HIEROGLYPH C001
1305B EGYPTIAN HIEROGLYPH C002
1305C EGYPTIAN HIEROGLYPH C002-A
1305D EGYPTIAN HIEROGLYPH C002-B
1305E EGYPTIAN HIEROGLYPH C002-C
1305F EGYPTIAN HIEROGLYPH C003
13060 EGYPTIAN HIEROGLYPH C004
13061 EGYPTIAN HIEROGLYPH C005
13062 EGYPTIAN HIEROGLYPH C006
13063 EGYPTIAN HIEROGLYPH C007
13064 EGYPTIAN HIEROGLYPH C008
13065 EGYPTIAN HIEROGLYPH C009
13066 EGYPTIAN HIEROGLYPH C010
13067 EGYPTIAN HIEROGLYPH C010-A
13068 EGYPTIAN HIEROGLYPH C011
= 1,000,000
13069 EGYPTIAN HIEROGLYPH C012
1306A EGYPTIAN HIEROGLYPH C013
1306B EGYPTIAN HIEROGLYPH C014
1306C EGYPTIAN HIEROGLYPH C015
1306D EGYPTIAN HIEROGLYPH C016
1306E EGYPTIAN HIEROGLYPH C017
1306F EGYPTIAN HIEROGLYPH C018
13070 EGYPTIAN HIEROGLYPH C019
13071 EGYPTIAN HIEROGLYPH C020
13072 EGYPTIAN HIEROGLYPH C021
13073 EGYPTIAN HIEROGLYPH C022
13074 EGYPTIAN HIEROGLYPH C023
13075 EGYPTIAN HIEROGLYPH C024

D. Parts of the human body

13076 EGYPTIAN HIEROGLYPH D001
13077 EGYPTIAN HIEROGLYPH D002
13078 EGYPTIAN HIEROGLYPH D003
13079 EGYPTIAN HIEROGLYPH D004
1307A EGYPTIAN HIEROGLYPH D005
1307B EGYPTIAN HIEROGLYPH D006
1307C EGYPTIAN HIEROGLYPH D007
1307D EGYPTIAN HIEROGLYPH D008
1307E EGYPTIAN HIEROGLYPH D008-A

1307F EGYPTIAN HIEROGLYPH D009
13080 EGYPTIAN HIEROGLYPH D010
13081 EGYPTIAN HIEROGLYPH D011
= 1/2
13082 EGYPTIAN HIEROGLYPH D012
= 1/4
13083 EGYPTIAN HIEROGLYPH D013
= 1/8
13084 EGYPTIAN HIEROGLYPH D014
= 1/16
13085 EGYPTIAN HIEROGLYPH D015
= 1/32
13086 EGYPTIAN HIEROGLYPH D016
= 1/64
13087 EGYPTIAN HIEROGLYPH D017
13088 EGYPTIAN HIEROGLYPH D018
13089 EGYPTIAN HIEROGLYPH D019
1308A EGYPTIAN HIEROGLYPH D020
1308B EGYPTIAN HIEROGLYPH D021
= r
1308C EGYPTIAN HIEROGLYPH D022
1308D EGYPTIAN HIEROGLYPH D023
1308E EGYPTIAN HIEROGLYPH D024
1308F EGYPTIAN HIEROGLYPH D025
13090 EGYPTIAN HIEROGLYPH D026
13091 EGYPTIAN HIEROGLYPH D027
13092 EGYPTIAN HIEROGLYPH D027-A
13093 EGYPTIAN HIEROGLYPH D028
13094 EGYPTIAN HIEROGLYPH D029
13095 EGYPTIAN HIEROGLYPH D030
13096 EGYPTIAN HIEROGLYPH D031
13097 EGYPTIAN HIEROGLYPH D031-A
13098 EGYPTIAN HIEROGLYPH D032
13099 EGYPTIAN HIEROGLYPH D033
1309A EGYPTIAN HIEROGLYPH D034
1309B EGYPTIAN HIEROGLYPH D034-A
1309C EGYPTIAN HIEROGLYPH D035
1309D EGYPTIAN HIEROGLYPH D036
= ayin
→ 05E2 ע hebrew letter ayin
→ 0639 ع arabic letter ain
→ A725 latin small letter egyptological ain
1309E EGYPTIAN HIEROGLYPH D037
1309F EGYPTIAN HIEROGLYPH D038
130A0 EGYPTIAN HIEROGLYPH D039
130A1 EGYPTIAN HIEROGLYPH D040
130A2 EGYPTIAN HIEROGLYPH D041
130A3 EGYPTIAN HIEROGLYPH D042
130A4 EGYPTIAN HIEROGLYPH D043
130A5 EGYPTIAN HIEROGLYPH D044
130A6 EGYPTIAN HIEROGLYPH D045
130A7 EGYPTIAN HIEROGLYPH D046
= d
130A8 EGYPTIAN HIEROGLYPH D046-A
130A9 EGYPTIAN HIEROGLYPH D047
130AA EGYPTIAN HIEROGLYPH D048
130AB EGYPTIAN HIEROGLYPH D048-A
130AC EGYPTIAN HIEROGLYPH D049
130AD EGYPTIAN HIEROGLYPH D050
= 10,000
130AE EGYPTIAN HIEROGLYPH D051
130AF EGYPTIAN HIEROGLYPH D052
130B0 EGYPTIAN HIEROGLYPH D052-A
130B1 EGYPTIAN HIEROGLYPH D053
130B2 EGYPTIAN HIEROGLYPH D054
130B3 EGYPTIAN HIEROGLYPH D054-A
130B4 EGYPTIAN HIEROGLYPH D055
130B5 EGYPTIAN HIEROGLYPH D056
130B6 EGYPTIAN HIEROGLYPH D057
130B7 EGYPTIAN HIEROGLYPH D058
= b
130B8 EGYPTIAN HIEROGLYPH D059
130B9 EGYPTIAN HIEROGLYPH D060
130BA EGYPTIAN HIEROGLYPH D061
130BB EGYPTIAN HIEROGLYPH D062
130BC EGYPTIAN HIEROGLYPH D063
130BD EGYPTIAN HIEROGLYPH D064
130BE EGYPTIAN HIEROGLYPH D065
130BF EGYPTIAN HIEROGLYPH D066
130C0 EGYPTIAN HIEROGLYPH D067
= 1 heqat measure
130C1 EGYPTIAN HIEROGLYPH D068
= 2 heqat measures
130C2 EGYPTIAN HIEROGLYPH D068-A
= 2 heqat measures
130C3 EGYPTIAN HIEROGLYPH D069
= 3 heqat measures
130C4 EGYPTIAN HIEROGLYPH D069-A
= 3 heqat measures
130C5 EGYPTIAN HIEROGLYPH D069-B
= 3 heqat measures
130C6 EGYPTIAN HIEROGLYPH D070
= 4 heqat measures
130C7 EGYPTIAN HIEROGLYPH D070-A
= 4 heqat measures
130C8 EGYPTIAN HIEROGLYPH D071
= 5 heqat measures
130C9 EGYPTIAN HIEROGLYPH D072
= 6 heqat measures
130CA EGYPTIAN HIEROGLYPH D073
= 7 heqat measures
130CB EGYPTIAN HIEROGLYPH D074
= 8 heqat measures
130CC EGYPTIAN HIEROGLYPH D075
= 9 heqat measures
130CD EGYPTIAN HIEROGLYPH D076
= 20,000
130CE EGYPTIAN HIEROGLYPH D077
= 30,000
130CF EGYPTIAN HIEROGLYPH D078
= 40,000
130D0 EGYPTIAN HIEROGLYPH D079
= 50,000
130D1 EGYPTIAN HIEROGLYPH D080
= 60,000
130D2 EGYPTIAN HIEROGLYPH D081
= 70,000
130D3 EGYPTIAN HIEROGLYPH D082
= 80,000
130D4 EGYPTIAN HIEROGLYPH D083
= 90,000

E. Mammals

130D5 EGYPTIAN HIEROGLYPH E001
130D6 EGYPTIAN HIEROGLYPH E002
130D7 EGYPTIAN HIEROGLYPH E003
130D8 EGYPTIAN HIEROGLYPH E004
130D9 EGYPTIAN HIEROGLYPH E005
130DA EGYPTIAN HIEROGLYPH E006
130DB EGYPTIAN HIEROGLYPH E007
130DC EGYPTIAN HIEROGLYPH E008
130DD EGYPTIAN HIEROGLYPH E008-A
130DE EGYPTIAN HIEROGLYPH E009

130DF EGYPTIAN HIEROGLYPH E009-A
130E0 EGYPTIAN HIEROGLYPH E010
130E1 EGYPTIAN HIEROGLYPH E011
130E2 EGYPTIAN HIEROGLYPH E012
130E3 EGYPTIAN HIEROGLYPH E013
130E4 EGYPTIAN HIEROGLYPH E014
130E5 EGYPTIAN HIEROGLYPH E015
130E6 EGYPTIAN HIEROGLYPH E016
130E7 EGYPTIAN HIEROGLYPH E016-A
130E8 EGYPTIAN HIEROGLYPH E017
130E9 EGYPTIAN HIEROGLYPH E017-A
130EA EGYPTIAN HIEROGLYPH E018
130EB EGYPTIAN HIEROGLYPH E019
130EC EGYPTIAN HIEROGLYPH E020
130ED EGYPTIAN HIEROGLYPH E020-A
130EE EGYPTIAN HIEROGLYPH E021
130EF EGYPTIAN HIEROGLYPH E022
130F0 EGYPTIAN HIEROGLYPH E023
130F1 EGYPTIAN HIEROGLYPH E024
130F2 EGYPTIAN HIEROGLYPH E025
130F3 EGYPTIAN HIEROGLYPH E026
130F4 EGYPTIAN HIEROGLYPH E027
130F5 EGYPTIAN HIEROGLYPH E028
130F6 EGYPTIAN HIEROGLYPH E028-A
130F7 EGYPTIAN HIEROGLYPH E029
130F8 EGYPTIAN HIEROGLYPH E030
130F9 EGYPTIAN HIEROGLYPH E031
130FA EGYPTIAN HIEROGLYPH E032
130FB EGYPTIAN HIEROGLYPH E033
130FC EGYPTIAN HIEROGLYPH E034
130FD EGYPTIAN HIEROGLYPH E034-A
130FE EGYPTIAN HIEROGLYPH E035
130FF EGYPTIAN HIEROGLYPH E036
13100 EGYPTIAN HIEROGLYPH E037
13101 EGYPTIAN HIEROGLYPH E038

F. Parts of mammals

13102 EGYPTIAN HIEROGLYPH F001
13103 EGYPTIAN HIEROGLYPH F001-A
13104 EGYPTIAN HIEROGLYPH F002
13105 EGYPTIAN HIEROGLYPH F003
13106 EGYPTIAN HIEROGLYPH F004
13107 EGYPTIAN HIEROGLYPH F005
13108 EGYPTIAN HIEROGLYPH F006
13109 EGYPTIAN HIEROGLYPH F007
1310A EGYPTIAN HIEROGLYPH F008
1310B EGYPTIAN HIEROGLYPH F009
1310C EGYPTIAN HIEROGLYPH F010
1310D EGYPTIAN HIEROGLYPH F011
1310E EGYPTIAN HIEROGLYPH F012
1310F EGYPTIAN HIEROGLYPH F013
13110 EGYPTIAN HIEROGLYPH F013-A
13111 EGYPTIAN HIEROGLYPH F014
13112 EGYPTIAN HIEROGLYPH F015
13113 EGYPTIAN HIEROGLYPH F016
13114 EGYPTIAN HIEROGLYPH F017
13115 EGYPTIAN HIEROGLYPH F018
13116 EGYPTIAN HIEROGLYPH F019
13117 EGYPTIAN HIEROGLYPH F020
13118 EGYPTIAN HIEROGLYPH F021
13119 EGYPTIAN HIEROGLYPH F021-A
1311A EGYPTIAN HIEROGLYPH F022
1311B EGYPTIAN HIEROGLYPH F023
1311C EGYPTIAN HIEROGLYPH F024
1311D EGYPTIAN HIEROGLYPH F025
1311E EGYPTIAN HIEROGLYPH F026
1311F EGYPTIAN HIEROGLYPH F027
13120 EGYPTIAN HIEROGLYPH F028
13121 EGYPTIAN HIEROGLYPH F029
13122 EGYPTIAN HIEROGLYPH F030
13123 EGYPTIAN HIEROGLYPH F031
13124 EGYPTIAN HIEROGLYPH F031-A
13125 EGYPTIAN HIEROGLYPH F032
= h
→ 1E96 ẖ latin small letter h with line below
13126 EGYPTIAN HIEROGLYPH F033
13127 EGYPTIAN HIEROGLYPH F034
13128 EGYPTIAN HIEROGLYPH F035
13129 EGYPTIAN HIEROGLYPH F036
1312A EGYPTIAN HIEROGLYPH F037
1312B EGYPTIAN HIEROGLYPH F037-A
1312C EGYPTIAN HIEROGLYPH F038
1312D EGYPTIAN HIEROGLYPH F038-A
1312E EGYPTIAN HIEROGLYPH F039
1312F EGYPTIAN HIEROGLYPH F040
13130 EGYPTIAN HIEROGLYPH F041
13131 EGYPTIAN HIEROGLYPH F042
13132 EGYPTIAN HIEROGLYPH F043
13133 EGYPTIAN HIEROGLYPH F044
13134 EGYPTIAN HIEROGLYPH F045
13135 EGYPTIAN HIEROGLYPH F046
13136 EGYPTIAN HIEROGLYPH F046-A
13137 EGYPTIAN HIEROGLYPH F047
13138 EGYPTIAN HIEROGLYPH F047-A
13139 EGYPTIAN HIEROGLYPH F048
1313A EGYPTIAN HIEROGLYPH F049
1313B EGYPTIAN HIEROGLYPH F050
1313C EGYPTIAN HIEROGLYPH F051
1313D EGYPTIAN HIEROGLYPH F051-A
1313E EGYPTIAN HIEROGLYPH F051-B
1313F EGYPTIAN HIEROGLYPH F051-C
13140 EGYPTIAN HIEROGLYPH F052
13141 EGYPTIAN HIEROGLYPH F053

G. Birds

13142 EGYPTIAN HIEROGLYPH G001
= alef
→ 05D0 א hebrew letter alef
→ 0623 أ arabic letter alef with hamza above
→ A723 latin small letter egyptological alef
13143 EGYPTIAN HIEROGLYPH G002
13144 EGYPTIAN HIEROGLYPH G003
13145 EGYPTIAN HIEROGLYPH G004
13146 EGYPTIAN HIEROGLYPH G005
13147 EGYPTIAN HIEROGLYPH G006
13148 EGYPTIAN HIEROGLYPH G006-A
13149 EGYPTIAN HIEROGLYPH G007
1314A EGYPTIAN HIEROGLYPH G007-A
1314B EGYPTIAN HIEROGLYPH G007-B
1314C EGYPTIAN HIEROGLYPH G008
1314D EGYPTIAN HIEROGLYPH G009
1314E EGYPTIAN HIEROGLYPH G010
1314F EGYPTIAN HIEROGLYPH G011
13150 EGYPTIAN HIEROGLYPH G011-A
13151 EGYPTIAN HIEROGLYPH G012
13152 EGYPTIAN HIEROGLYPH G013
13153 EGYPTIAN HIEROGLYPH G014
13154 EGYPTIAN HIEROGLYPH G015
13155 EGYPTIAN HIEROGLYPH G016
13156 EGYPTIAN HIEROGLYPH G017
= m
13157 EGYPTIAN HIEROGLYPH G018
13158 EGYPTIAN HIEROGLYPH G019
13159 EGYPTIAN HIEROGLYPH G020
1315A EGYPTIAN HIEROGLYPH G020-A
1315B EGYPTIAN HIEROGLYPH G021
1315C EGYPTIAN HIEROGLYPH G022

1315D EGYPTIAN HIEROGLYPH G023
1315E EGYPTIAN HIEROGLYPH G024
1315F EGYPTIAN HIEROGLYPH G025
13160 EGYPTIAN HIEROGLYPH G026
13161 EGYPTIAN HIEROGLYPH G026-A
13162 EGYPTIAN HIEROGLYPH G027
13163 EGYPTIAN HIEROGLYPH G028
13164 EGYPTIAN HIEROGLYPH G029
13165 EGYPTIAN HIEROGLYPH G030
13166 EGYPTIAN HIEROGLYPH G031
13167 EGYPTIAN HIEROGLYPH G032
13168 EGYPTIAN HIEROGLYPH G033
13169 EGYPTIAN HIEROGLYPH G034
1316A EGYPTIAN HIEROGLYPH G035
1316B EGYPTIAN HIEROGLYPH G036
1316C EGYPTIAN HIEROGLYPH G036-A
1316D EGYPTIAN HIEROGLYPH G037
1316E EGYPTIAN HIEROGLYPH G037-A
1316F EGYPTIAN HIEROGLYPH G038
13170 EGYPTIAN HIEROGLYPH G039
13171 EGYPTIAN HIEROGLYPH G040
13172 EGYPTIAN HIEROGLYPH G041
13173 EGYPTIAN HIEROGLYPH G042
13174 EGYPTIAN HIEROGLYPH G043
= w
13175 EGYPTIAN HIEROGLYPH G043-A
13176 EGYPTIAN HIEROGLYPH G044
13177 EGYPTIAN HIEROGLYPH G045
13178 EGYPTIAN HIEROGLYPH G045-A
13179 EGYPTIAN HIEROGLYPH G046
1317A EGYPTIAN HIEROGLYPH G047
1317B EGYPTIAN HIEROGLYPH G048
1317C EGYPTIAN HIEROGLYPH G049
1317D EGYPTIAN HIEROGLYPH G050
1317E EGYPTIAN HIEROGLYPH G051
1317F EGYPTIAN HIEROGLYPH G052
13180 EGYPTIAN HIEROGLYPH G053
13181 EGYPTIAN HIEROGLYPH G054

H. Parts of birds

13182 EGYPTIAN HIEROGLYPH H001
13183 EGYPTIAN HIEROGLYPH H002
13184 EGYPTIAN HIEROGLYPH H003
13185 EGYPTIAN HIEROGLYPH H004
13186 EGYPTIAN HIEROGLYPH H005
13187 EGYPTIAN HIEROGLYPH H006
13188 EGYPTIAN HIEROGLYPH H006-A
13189 EGYPTIAN HIEROGLYPH H007
1318A EGYPTIAN HIEROGLYPH H008

I. Amphibious animals, reptiles, etc.

1318B EGYPTIAN HIEROGLYPH I001
1318C EGYPTIAN HIEROGLYPH I002
1318D EGYPTIAN HIEROGLYPH I003
1318E EGYPTIAN HIEROGLYPH I004
1318F EGYPTIAN HIEROGLYPH I005
13190 EGYPTIAN HIEROGLYPH I005-A
13191 EGYPTIAN HIEROGLYPH I006
13192 EGYPTIAN HIEROGLYPH I007
13193 EGYPTIAN HIEROGLYPH I008
= 100,000
13194 EGYPTIAN HIEROGLYPH I009
= f
13195 EGYPTIAN HIEROGLYPH I009-A
13196 EGYPTIAN HIEROGLYPH I010
= dj
→ 1E0F ḏ latin small letter d with line below
13197 EGYPTIAN HIEROGLYPH I010-A
13198 EGYPTIAN HIEROGLYPH I011
13199 EGYPTIAN HIEROGLYPH I011-A
1319A EGYPTIAN HIEROGLYPH I012
1319B EGYPTIAN HIEROGLYPH I013
1319C EGYPTIAN HIEROGLYPH I014
1319D EGYPTIAN HIEROGLYPH I015

K. Fishes and parts of fishes

1319E EGYPTIAN HIEROGLYPH K001
1319F EGYPTIAN HIEROGLYPH K002
131A0 EGYPTIAN HIEROGLYPH K003
131A1 EGYPTIAN HIEROGLYPH K004
131A2 EGYPTIAN HIEROGLYPH K005
131A3 EGYPTIAN HIEROGLYPH K006
131A4 EGYPTIAN HIEROGLYPH K007
131A5 EGYPTIAN HIEROGLYPH K008

L. Invertebrata and lesser animals

131A6 EGYPTIAN HIEROGLYPH L001
131A7 EGYPTIAN HIEROGLYPH L002
131A8 EGYPTIAN HIEROGLYPH L002-A
131A9 EGYPTIAN HIEROGLYPH L003
131AA EGYPTIAN HIEROGLYPH L004
131AB EGYPTIAN HIEROGLYPH L005
131AC EGYPTIAN HIEROGLYPH L006
131AD EGYPTIAN HIEROGLYPH L006-A
131AE EGYPTIAN HIEROGLYPH L007
131AF EGYPTIAN HIEROGLYPH L008

M. Trees and plants

131B0 EGYPTIAN HIEROGLYPH M001
131B1 EGYPTIAN HIEROGLYPH M001-A
131B2 EGYPTIAN HIEROGLYPH M001-B
131B3 EGYPTIAN HIEROGLYPH M002
131B4 EGYPTIAN HIEROGLYPH M003
131B5 EGYPTIAN HIEROGLYPH M003-A
131B6 EGYPTIAN HIEROGLYPH M004
131B7 EGYPTIAN HIEROGLYPH M005
131B8 EGYPTIAN HIEROGLYPH M006
131B9 EGYPTIAN HIEROGLYPH M007
131BA EGYPTIAN HIEROGLYPH M008
131BB EGYPTIAN HIEROGLYPH M009
131BC EGYPTIAN HIEROGLYPH M010
131BD EGYPTIAN HIEROGLYPH M010-A
131BE EGYPTIAN HIEROGLYPH M011
131BF EGYPTIAN HIEROGLYPH M012
= 1,000
131C0 EGYPTIAN HIEROGLYPH M013
131C1 EGYPTIAN HIEROGLYPH M014
131C2 EGYPTIAN HIEROGLYPH M015
131C3 EGYPTIAN HIEROGLYPH M015-A
131C4 EGYPTIAN HIEROGLYPH M016
131C5 EGYPTIAN HIEROGLYPH M016-A
131C6 EGYPTIAN HIEROGLYPH M017
= yod
→ 0069 i latin small letter i + 0486 ◌̆ combining cyrillic psili pneumata
→ 05D9 י hebrew letter yod
→ 064A ي arabic letter yeh
131C7 EGYPTIAN HIEROGLYPH M017-A
= y
→ 133DA 𓏚 egyptian hieroglyph z004
131C8 EGYPTIAN HIEROGLYPH M018
131C9 EGYPTIAN HIEROGLYPH M019
131CA EGYPTIAN HIEROGLYPH M020
131CB EGYPTIAN HIEROGLYPH M021
131CC EGYPTIAN HIEROGLYPH M022
131CD EGYPTIAN HIEROGLYPH M022-A

131CE EGYPTIAN HIEROGLYPH M023
131CF EGYPTIAN HIEROGLYPH M024
131D0 EGYPTIAN HIEROGLYPH M024-A
131D1 EGYPTIAN HIEROGLYPH M025
131D2 EGYPTIAN HIEROGLYPH M026
131D3 EGYPTIAN HIEROGLYPH M027
131D4 EGYPTIAN HIEROGLYPH M028
131D5 EGYPTIAN HIEROGLYPH M028-A
131D6 EGYPTIAN HIEROGLYPH M029
131D7 EGYPTIAN HIEROGLYPH M030
131D8 EGYPTIAN HIEROGLYPH M031
131D9 EGYPTIAN HIEROGLYPH M031-A
131DA EGYPTIAN HIEROGLYPH M032
131DB EGYPTIAN HIEROGLYPH M033
131DC EGYPTIAN HIEROGLYPH M033-A
131DD EGYPTIAN HIEROGLYPH M034
131DE EGYPTIAN HIEROGLYPH M035
131DF EGYPTIAN HIEROGLYPH M036
131E0 EGYPTIAN HIEROGLYPH M037
131E1 EGYPTIAN HIEROGLYPH M038
131E2 EGYPTIAN HIEROGLYPH M039
131E3 EGYPTIAN HIEROGLYPH M040
131E4 EGYPTIAN HIEROGLYPH M040-A
131E5 EGYPTIAN HIEROGLYPH M041
131E6 EGYPTIAN HIEROGLYPH M042
131E7 EGYPTIAN HIEROGLYPH M043
131E8 EGYPTIAN HIEROGLYPH M044
131E9 EGYPTIAN HIEROGLYPH M045
= 2,000
131EA EGYPTIAN HIEROGLYPH M046
= 3,000
131EB EGYPTIAN HIEROGLYPH M047
= 4,000
131EC EGYPTIAN HIEROGLYPH M048
= 5,000
131ED EGYPTIAN HIEROGLYPH M049
= 6,000
131EE EGYPTIAN HIEROGLYPH M050
= 7,000
131EF EGYPTIAN HIEROGLYPH M051
= 8,000
131F0 EGYPTIAN HIEROGLYPH M052
= 9,000

N. Sky, earth, water

131F1 EGYPTIAN HIEROGLYPH N001
131F2 EGYPTIAN HIEROGLYPH N002
131F3 EGYPTIAN HIEROGLYPH N003
131F4 EGYPTIAN HIEROGLYPH N004
131F5 EGYPTIAN HIEROGLYPH N005
131F6 EGYPTIAN HIEROGLYPH N006
131F7 EGYPTIAN HIEROGLYPH N007
131F8 EGYPTIAN HIEROGLYPH N008
131F9 EGYPTIAN HIEROGLYPH N009
131FA EGYPTIAN HIEROGLYPH N010
131FB EGYPTIAN HIEROGLYPH N011
131FC EGYPTIAN HIEROGLYPH N012
131FD EGYPTIAN HIEROGLYPH N013
131FE EGYPTIAN HIEROGLYPH N014
131FF EGYPTIAN HIEROGLYPH N015
13200 EGYPTIAN HIEROGLYPH N016
13201 EGYPTIAN HIEROGLYPH N017
13202 EGYPTIAN HIEROGLYPH N018
13203 EGYPTIAN HIEROGLYPH N018-A
13204 EGYPTIAN HIEROGLYPH N018-B
13205 EGYPTIAN HIEROGLYPH N019
13206 EGYPTIAN HIEROGLYPH N020
13207 EGYPTIAN HIEROGLYPH N021
13208 EGYPTIAN HIEROGLYPH N022
13209 EGYPTIAN HIEROGLYPH N023
1320A EGYPTIAN HIEROGLYPH N024
1320B EGYPTIAN HIEROGLYPH N025
1320C EGYPTIAN HIEROGLYPH N025-A
1320D EGYPTIAN HIEROGLYPH N026
1320E EGYPTIAN HIEROGLYPH N027
1320F EGYPTIAN HIEROGLYPH N028
13210 EGYPTIAN HIEROGLYPH N029
= q
→ 05E7 ק hebrew letter qof
→ 0642 ق arabic letter qaf
→ 1E33 ḳ latin small letter k with dot below
13211 EGYPTIAN HIEROGLYPH N030
13212 EGYPTIAN HIEROGLYPH N031
13213 EGYPTIAN HIEROGLYPH N032
13214 EGYPTIAN HIEROGLYPH N033
13215 EGYPTIAN HIEROGLYPH N033-A
13216 EGYPTIAN HIEROGLYPH N034
13217 EGYPTIAN HIEROGLYPH N034-A
13218 EGYPTIAN HIEROGLYPH N035
= n
13219 EGYPTIAN HIEROGLYPH N035-A
1321A EGYPTIAN HIEROGLYPH N036
1321B EGYPTIAN HIEROGLYPH N037
= sh
→ 0161 š latin small letter s with caron
1321C EGYPTIAN HIEROGLYPH N037-A
1321D EGYPTIAN HIEROGLYPH N038
1321E EGYPTIAN HIEROGLYPH N039
1321F EGYPTIAN HIEROGLYPH N040
13220 EGYPTIAN HIEROGLYPH N041
13221 EGYPTIAN HIEROGLYPH N042

NL. Nomes of Lower Egypt

13222 EGYPTIAN HIEROGLYPH NL001
13223 EGYPTIAN HIEROGLYPH NL002
13224 EGYPTIAN HIEROGLYPH NL003
13225 EGYPTIAN HIEROGLYPH NL004
13226 EGYPTIAN HIEROGLYPH NL005
13227 EGYPTIAN HIEROGLYPH NL005-A
13228 EGYPTIAN HIEROGLYPH NL006
13229 EGYPTIAN HIEROGLYPH NL007
1322A EGYPTIAN HIEROGLYPH NL008
1322B EGYPTIAN HIEROGLYPH NL009
1322C EGYPTIAN HIEROGLYPH NL010
1322D EGYPTIAN HIEROGLYPH NL011
1322E EGYPTIAN HIEROGLYPH NL012
1322F EGYPTIAN HIEROGLYPH NL013
13230 EGYPTIAN HIEROGLYPH NL014
13231 EGYPTIAN HIEROGLYPH NL015
13232 EGYPTIAN HIEROGLYPH NL016
13233 EGYPTIAN HIEROGLYPH NL017
13234 EGYPTIAN HIEROGLYPH NL017-A
13235 EGYPTIAN HIEROGLYPH NL018
13236 EGYPTIAN HIEROGLYPH NL019
13237 EGYPTIAN HIEROGLYPH NL020

NU. Nomes of Upper Egypt

13238 EGYPTIAN HIEROGLYPH NU001
13239 EGYPTIAN HIEROGLYPH NU002
1323A EGYPTIAN HIEROGLYPH NU003
1323B EGYPTIAN HIEROGLYPH NU004
1323C EGYPTIAN HIEROGLYPH NU005
1323D EGYPTIAN HIEROGLYPH NU006
1323E EGYPTIAN HIEROGLYPH NU007
1323F EGYPTIAN HIEROGLYPH NU008
13240 EGYPTIAN HIEROGLYPH NU009

13241 EGYPTIAN HIEROGLYPH NU010
13242 EGYPTIAN HIEROGLYPH NU010-A
13243 EGYPTIAN HIEROGLYPH NU011
13244 EGYPTIAN HIEROGLYPH NU011-A
13245 EGYPTIAN HIEROGLYPH NU012
13246 EGYPTIAN HIEROGLYPH NU013
13247 EGYPTIAN HIEROGLYPH NU014
13248 EGYPTIAN HIEROGLYPH NU015
13249 EGYPTIAN HIEROGLYPH NU016
1324A EGYPTIAN HIEROGLYPH NU017
1324B EGYPTIAN HIEROGLYPH NU018
1324C EGYPTIAN HIEROGLYPH NU018-A
1324D EGYPTIAN HIEROGLYPH NU019
1324E EGYPTIAN HIEROGLYPH NU020
1324F EGYPTIAN HIEROGLYPH NU021
13250 EGYPTIAN HIEROGLYPH NU022
13251 EGYPTIAN HIEROGLYPH NU022-A

O. Buildings, parts of buildings, etc.

13252 EGYPTIAN HIEROGLYPH O001
13253 EGYPTIAN HIEROGLYPH O001-A
13254 EGYPTIAN HIEROGLYPH O002
13255 EGYPTIAN HIEROGLYPH O003
13256 EGYPTIAN HIEROGLYPH O004
= h
→ 05D4 ה hebrew letter he
→ 0647 ه arabic letter heh
13257 EGYPTIAN HIEROGLYPH O005
13258 EGYPTIAN HIEROGLYPH O005-A
13259 EGYPTIAN HIEROGLYPH O006
1325A EGYPTIAN HIEROGLYPH O007
1325B EGYPTIAN HIEROGLYPH O008
1325C EGYPTIAN HIEROGLYPH O009
1325D EGYPTIAN HIEROGLYPH O010
1325E EGYPTIAN HIEROGLYPH O010-A
1325F EGYPTIAN HIEROGLYPH O010-B
13260 EGYPTIAN HIEROGLYPH O010-C
13261 EGYPTIAN HIEROGLYPH O011
13262 EGYPTIAN HIEROGLYPH O012
13263 EGYPTIAN HIEROGLYPH O013
13264 EGYPTIAN HIEROGLYPH O014
13265 EGYPTIAN HIEROGLYPH O015
13266 EGYPTIAN HIEROGLYPH O016
13267 EGYPTIAN HIEROGLYPH O017
13268 EGYPTIAN HIEROGLYPH O018
13269 EGYPTIAN HIEROGLYPH O019
1326A EGYPTIAN HIEROGLYPH O019-A
1326B EGYPTIAN HIEROGLYPH O020
1326C EGYPTIAN HIEROGLYPH O020-A
1326D EGYPTIAN HIEROGLYPH O021
1326E EGYPTIAN HIEROGLYPH O022
1326F EGYPTIAN HIEROGLYPH O023
13270 EGYPTIAN HIEROGLYPH O024
13271 EGYPTIAN HIEROGLYPH O024-A
13272 EGYPTIAN HIEROGLYPH O025
13273 EGYPTIAN HIEROGLYPH O025-A
13274 EGYPTIAN HIEROGLYPH O026
13275 EGYPTIAN HIEROGLYPH O027
13276 EGYPTIAN HIEROGLYPH O028
13277 EGYPTIAN HIEROGLYPH O029
13278 EGYPTIAN HIEROGLYPH O030
13279 EGYPTIAN HIEROGLYPH O030-A
1327A EGYPTIAN HIEROGLYPH O031
1327B EGYPTIAN HIEROGLYPH O032
1327C EGYPTIAN HIEROGLYPH O033
1327D EGYPTIAN HIEROGLYPH O034
= s, z
→ 132E5 egyptian hieroglyph s029
1327E EGYPTIAN HIEROGLYPH O035
1327F EGYPTIAN HIEROGLYPH O036
13280 EGYPTIAN HIEROGLYPH O037
13281 EGYPTIAN HIEROGLYPH O038
13282 EGYPTIAN HIEROGLYPH O039
13283 EGYPTIAN HIEROGLYPH O040
13284 EGYPTIAN HIEROGLYPH O041
13285 EGYPTIAN HIEROGLYPH O042
13286 EGYPTIAN HIEROGLYPH O043
13287 EGYPTIAN HIEROGLYPH O044
13288 EGYPTIAN HIEROGLYPH O045
13289 EGYPTIAN HIEROGLYPH O046
1328A EGYPTIAN HIEROGLYPH O047
1328B EGYPTIAN HIEROGLYPH O048
1328C EGYPTIAN HIEROGLYPH O049
1328D EGYPTIAN HIEROGLYPH O050
1328E EGYPTIAN HIEROGLYPH O051

P. Ships and parts of ships

1328F EGYPTIAN HIEROGLYPH P001
13290 EGYPTIAN HIEROGLYPH P001-A
13291 EGYPTIAN HIEROGLYPH P002
13292 EGYPTIAN HIEROGLYPH P003
13293 EGYPTIAN HIEROGLYPH P003-A
13294 EGYPTIAN HIEROGLYPH P004
13295 EGYPTIAN HIEROGLYPH P005
13296 EGYPTIAN HIEROGLYPH P006
13297 EGYPTIAN HIEROGLYPH P007
13298 EGYPTIAN HIEROGLYPH P008
13299 EGYPTIAN HIEROGLYPH P009
1329A EGYPTIAN HIEROGLYPH P010
1329B EGYPTIAN HIEROGLYPH P011

Q. Domestic and funerary furniture

1329C EGYPTIAN HIEROGLYPH Q001
1329D EGYPTIAN HIEROGLYPH Q002
1329E EGYPTIAN HIEROGLYPH Q003
= p
1329F EGYPTIAN HIEROGLYPH Q004
132A0 EGYPTIAN HIEROGLYPH Q005
132A1 EGYPTIAN HIEROGLYPH Q006
132A2 EGYPTIAN HIEROGLYPH Q007

R. Temple furniture and sacred emblems

132A3 EGYPTIAN HIEROGLYPH R001
132A4 EGYPTIAN HIEROGLYPH R002
132A5 EGYPTIAN HIEROGLYPH R002-A
132A6 EGYPTIAN HIEROGLYPH R003
132A7 EGYPTIAN HIEROGLYPH R003-A
132A8 EGYPTIAN HIEROGLYPH R003-B
132A9 EGYPTIAN HIEROGLYPH R004
132AA EGYPTIAN HIEROGLYPH R005
132AB EGYPTIAN HIEROGLYPH R006
132AC EGYPTIAN HIEROGLYPH R007
132AD EGYPTIAN HIEROGLYPH R008
132AE EGYPTIAN HIEROGLYPH R009
132AF EGYPTIAN HIEROGLYPH R010
132B0 EGYPTIAN HIEROGLYPH R010-A
132B1 EGYPTIAN HIEROGLYPH R011
132B2 EGYPTIAN HIEROGLYPH R012
132B3 EGYPTIAN HIEROGLYPH R013
132B4 EGYPTIAN HIEROGLYPH R014
132B5 EGYPTIAN HIEROGLYPH R015
132B6 EGYPTIAN HIEROGLYPH R016
132B7 EGYPTIAN HIEROGLYPH R016-A
132B8 EGYPTIAN HIEROGLYPH R017
132B9 EGYPTIAN HIEROGLYPH R018
132BA EGYPTIAN HIEROGLYPH R019
132BB EGYPTIAN HIEROGLYPH R020

132BC EGYPTIAN HIEROGLYPH R021
132BD EGYPTIAN HIEROGLYPH R022
132BE EGYPTIAN HIEROGLYPH R023
132BF EGYPTIAN HIEROGLYPH R024
132C0 EGYPTIAN HIEROGLYPH R025
132C1 EGYPTIAN HIEROGLYPH R026
132C2 EGYPTIAN HIEROGLYPH R027
132C3 EGYPTIAN HIEROGLYPH R028
132C4 EGYPTIAN HIEROGLYPH R029

S. Crowns, dress, staves, etc.

132C5 EGYPTIAN HIEROGLYPH S001
132C6 EGYPTIAN HIEROGLYPH S002
132C7 EGYPTIAN HIEROGLYPH S002-A
132C8 EGYPTIAN HIEROGLYPH S003
132C9 EGYPTIAN HIEROGLYPH S004
132CA EGYPTIAN HIEROGLYPH S005
132CB EGYPTIAN HIEROGLYPH S006
132CC EGYPTIAN HIEROGLYPH S006-A
132CD EGYPTIAN HIEROGLYPH S007
132CE EGYPTIAN HIEROGLYPH S008
132CF EGYPTIAN HIEROGLYPH S009
132D0 EGYPTIAN HIEROGLYPH S010
132D1 EGYPTIAN HIEROGLYPH S011
132D2 EGYPTIAN HIEROGLYPH S012
132D3 EGYPTIAN HIEROGLYPH S013
132D4 EGYPTIAN HIEROGLYPH S014
132D5 EGYPTIAN HIEROGLYPH S014-A
132D6 EGYPTIAN HIEROGLYPH S014-B
132D7 EGYPTIAN HIEROGLYPH S015
132D8 EGYPTIAN HIEROGLYPH S016
132D9 EGYPTIAN HIEROGLYPH S017
132DA EGYPTIAN HIEROGLYPH S017-A
132DB EGYPTIAN HIEROGLYPH S018
132DC EGYPTIAN HIEROGLYPH S019
132DD EGYPTIAN HIEROGLYPH S020
132DE EGYPTIAN HIEROGLYPH S021
132DF EGYPTIAN HIEROGLYPH S022
132E0 EGYPTIAN HIEROGLYPH S023
132E1 EGYPTIAN HIEROGLYPH S024
132E2 EGYPTIAN HIEROGLYPH S025
132E3 EGYPTIAN HIEROGLYPH S026
132E4 EGYPTIAN HIEROGLYPH S027
132E5 EGYPTIAN HIEROGLYPH S028
132E6 EGYPTIAN HIEROGLYPH S029
= s, z
→ 1327C egyptian hieroglyph o034
132E7 EGYPTIAN HIEROGLYPH S030
132E8 EGYPTIAN HIEROGLYPH S031
132E9 EGYPTIAN HIEROGLYPH S032
132EA EGYPTIAN HIEROGLYPH S033
132EB EGYPTIAN HIEROGLYPH S034
132EC EGYPTIAN HIEROGLYPH S035
132ED EGYPTIAN HIEROGLYPH S035-A
132EE EGYPTIAN HIEROGLYPH S036
132EF EGYPTIAN HIEROGLYPH S037
132F0 EGYPTIAN HIEROGLYPH S038
132F1 EGYPTIAN HIEROGLYPH S039
132F2 EGYPTIAN HIEROGLYPH S040
132F3 EGYPTIAN HIEROGLYPH S041
132F4 EGYPTIAN HIEROGLYPH S042
132F5 EGYPTIAN HIEROGLYPH S043
132F6 EGYPTIAN HIEROGLYPH S044
132F7 EGYPTIAN HIEROGLYPH S045
132F8 EGYPTIAN HIEROGLYPH S046

T. Warfare, hunting, butchery

132F9 EGYPTIAN HIEROGLYPH T001
132FA EGYPTIAN HIEROGLYPH T002
132FB EGYPTIAN HIEROGLYPH T003
132FC EGYPTIAN HIEROGLYPH T003-A
132FD EGYPTIAN HIEROGLYPH T004
132FE EGYPTIAN HIEROGLYPH T005
132FF EGYPTIAN HIEROGLYPH T006
13300 EGYPTIAN HIEROGLYPH T007
13301 EGYPTIAN HIEROGLYPH T007-A
13302 EGYPTIAN HIEROGLYPH T008
13303 EGYPTIAN HIEROGLYPH T008-A
13304 EGYPTIAN HIEROGLYPH T009
13305 EGYPTIAN HIEROGLYPH T009-A
13306 EGYPTIAN HIEROGLYPH T010
13307 EGYPTIAN HIEROGLYPH T011
13308 EGYPTIAN HIEROGLYPH T011-A
13309 EGYPTIAN HIEROGLYPH T012
1330A EGYPTIAN HIEROGLYPH T013
1330B EGYPTIAN HIEROGLYPH T014
1330C EGYPTIAN HIEROGLYPH T015
1330D EGYPTIAN HIEROGLYPH T016
1330E EGYPTIAN HIEROGLYPH T016-A
1330F EGYPTIAN HIEROGLYPH T017
13310 EGYPTIAN HIEROGLYPH T018
13311 EGYPTIAN HIEROGLYPH T019
13312 EGYPTIAN HIEROGLYPH T020
13313 EGYPTIAN HIEROGLYPH T021
13314 EGYPTIAN HIEROGLYPH T022
13315 EGYPTIAN HIEROGLYPH T023
13316 EGYPTIAN HIEROGLYPH T024
13317 EGYPTIAN HIEROGLYPH T025
13318 EGYPTIAN HIEROGLYPH T026
13319 EGYPTIAN HIEROGLYPH T027
1331A EGYPTIAN HIEROGLYPH T028
1331B EGYPTIAN HIEROGLYPH T029
1331C EGYPTIAN HIEROGLYPH T030
1331D EGYPTIAN HIEROGLYPH T031
1331E EGYPTIAN HIEROGLYPH T032
1331F EGYPTIAN HIEROGLYPH T032-A
13320 EGYPTIAN HIEROGLYPH T033
13321 EGYPTIAN HIEROGLYPH T033-A
13322 EGYPTIAN HIEROGLYPH T034
13323 EGYPTIAN HIEROGLYPH T035
13324 EGYPTIAN HIEROGLYPH T036

U. Agriculture, crafts, and professions

13325 EGYPTIAN HIEROGLYPH U001
13326 EGYPTIAN HIEROGLYPH U002
13327 EGYPTIAN HIEROGLYPH U003
13328 EGYPTIAN HIEROGLYPH U004
13329 EGYPTIAN HIEROGLYPH U005
1332A EGYPTIAN HIEROGLYPH U006
1332B EGYPTIAN HIEROGLYPH U006-A
1332C EGYPTIAN HIEROGLYPH U006-B
1332D EGYPTIAN HIEROGLYPH U007
1332E EGYPTIAN HIEROGLYPH U008
1332F EGYPTIAN HIEROGLYPH U009
13330 EGYPTIAN HIEROGLYPH U010
13331 EGYPTIAN HIEROGLYPH U011
13332 EGYPTIAN HIEROGLYPH U012
13333 EGYPTIAN HIEROGLYPH U013
13334 EGYPTIAN HIEROGLYPH U014
13335 EGYPTIAN HIEROGLYPH U015
13336 EGYPTIAN HIEROGLYPH U016
13337 EGYPTIAN HIEROGLYPH U017
13338 EGYPTIAN HIEROGLYPH U018
13339 EGYPTIAN HIEROGLYPH U019
1333A EGYPTIAN HIEROGLYPH U020
1333B EGYPTIAN HIEROGLYPH U021
1333C EGYPTIAN HIEROGLYPH U022
1333D EGYPTIAN HIEROGLYPH U023

1333E EGYPTIAN HIEROGLYPH U023-A
1333F EGYPTIAN HIEROGLYPH U024
13340 EGYPTIAN HIEROGLYPH U025
13341 EGYPTIAN HIEROGLYPH U026
13342 EGYPTIAN HIEROGLYPH U027
13343 EGYPTIAN HIEROGLYPH U028
13344 EGYPTIAN HIEROGLYPH U029
13345 EGYPTIAN HIEROGLYPH U029-A
13346 EGYPTIAN HIEROGLYPH U030
13347 EGYPTIAN HIEROGLYPH U031
13348 EGYPTIAN HIEROGLYPH U032
13349 EGYPTIAN HIEROGLYPH U032-A
1334A EGYPTIAN HIEROGLYPH U033
1334B EGYPTIAN HIEROGLYPH U034
1334C EGYPTIAN HIEROGLYPH U035
1334D EGYPTIAN HIEROGLYPH U036
1334E EGYPTIAN HIEROGLYPH U037
1334F EGYPTIAN HIEROGLYPH U038
13350 EGYPTIAN HIEROGLYPH U039
13351 EGYPTIAN HIEROGLYPH U040
13352 EGYPTIAN HIEROGLYPH U041
13353 EGYPTIAN HIEROGLYPH U042

V. Rope, fibre, baskets, bags, etc.

13354 EGYPTIAN HIEROGLYPH V001
= 100
13355 EGYPTIAN HIEROGLYPH V002
13356 EGYPTIAN HIEROGLYPH V002-A
13357 EGYPTIAN HIEROGLYPH V003
13358 EGYPTIAN HIEROGLYPH V004
13359 EGYPTIAN HIEROGLYPH V005
1335A EGYPTIAN HIEROGLYPH V006
1335B EGYPTIAN HIEROGLYPH V007
1335C EGYPTIAN HIEROGLYPH V007-A
1335D EGYPTIAN HIEROGLYPH V007-B
1335E EGYPTIAN HIEROGLYPH V008
1335F EGYPTIAN HIEROGLYPH V009
13360 EGYPTIAN HIEROGLYPH V010
13361 EGYPTIAN HIEROGLYPH V011
13362 EGYPTIAN HIEROGLYPH V011-A
= beginning of cartouche
13363 EGYPTIAN HIEROGLYPH V011-B
= end of cartouche
13364 EGYPTIAN HIEROGLYPH V012
13365 EGYPTIAN HIEROGLYPH V012-A
13366 EGYPTIAN HIEROGLYPH V012-B
13367 EGYPTIAN HIEROGLYPH V013
= tj
→ 1E6F ṯ latin small letter t with line below
13368 EGYPTIAN HIEROGLYPH V014
13369 EGYPTIAN HIEROGLYPH V015
1336A EGYPTIAN HIEROGLYPH V016
1336B EGYPTIAN HIEROGLYPH V017
1336C EGYPTIAN HIEROGLYPH V018
1336D EGYPTIAN HIEROGLYPH V019
1336E EGYPTIAN HIEROGLYPH V020
= 10
1336F EGYPTIAN HIEROGLYPH V020-A
= 10 in dates
13370 EGYPTIAN HIEROGLYPH V021
13371 EGYPTIAN HIEROGLYPH V022
13372 EGYPTIAN HIEROGLYPH V023
13373 EGYPTIAN HIEROGLYPH V023-A
13374 EGYPTIAN HIEROGLYPH V024
13375 EGYPTIAN HIEROGLYPH V025
13376 EGYPTIAN HIEROGLYPH V026
13377 EGYPTIAN HIEROGLYPH V027
13378 EGYPTIAN HIEROGLYPH V028
= h
→ 062D ح arabic letter hah
→ 1E25 ḥ latin small letter h with dot below
13379 EGYPTIAN HIEROGLYPH V028-A
1337A EGYPTIAN HIEROGLYPH V029
1337B EGYPTIAN HIEROGLYPH V029-A
1337C EGYPTIAN HIEROGLYPH V030
1337D EGYPTIAN HIEROGLYPH V030-A
1337E EGYPTIAN HIEROGLYPH V031
= k
→ 05DB כ hebrew letter kaf
→ 0643 ك arabic letter kaf
1337F EGYPTIAN HIEROGLYPH V031-A
13380 EGYPTIAN HIEROGLYPH V032
13381 EGYPTIAN HIEROGLYPH V033
13382 EGYPTIAN HIEROGLYPH V033-A
13383 EGYPTIAN HIEROGLYPH V034
13384 EGYPTIAN HIEROGLYPH V035
13385 EGYPTIAN HIEROGLYPH V036
13386 EGYPTIAN HIEROGLYPH V037
13387 EGYPTIAN HIEROGLYPH V037-A
13388 EGYPTIAN HIEROGLYPH V038
13389 EGYPTIAN HIEROGLYPH V039
1338A EGYPTIAN HIEROGLYPH V040
= 200
1338B EGYPTIAN HIEROGLYPH V041
= 300
1338C EGYPTIAN HIEROGLYPH V042
= 400
1338D EGYPTIAN HIEROGLYPH V042-A
= 400
1338E EGYPTIAN HIEROGLYPH V043
= 500
1338F EGYPTIAN HIEROGLYPH V043-A
= 500
13390 EGYPTIAN HIEROGLYPH V044
= 600
13391 EGYPTIAN HIEROGLYPH V044-A
= 600
13392 EGYPTIAN HIEROGLYPH V045
= 700
13393 EGYPTIAN HIEROGLYPH V045-A
= 700
13394 EGYPTIAN HIEROGLYPH V046
= 800
13395 EGYPTIAN HIEROGLYPH V047
= 900
13396 EGYPTIAN HIEROGLYPH V047-A
= 900
13397 EGYPTIAN HIEROGLYPH V048
= 20
13398 EGYPTIAN HIEROGLYPH V048-A
= 20
13399 EGYPTIAN HIEROGLYPH V048-B
= 20 in dates
1339A EGYPTIAN HIEROGLYPH V049
= 30
1339B EGYPTIAN HIEROGLYPH V049-A
= 30
1339C EGYPTIAN HIEROGLYPH V050
= 40
1339D EGYPTIAN HIEROGLYPH V050-A
= 40

1339E EGYPTIAN HIEROGLYPH V051
= 50
1339F EGYPTIAN HIEROGLYPH V051-A
= 50
133A0 EGYPTIAN HIEROGLYPH V052
= 60
133A1 EGYPTIAN HIEROGLYPH V053
= 70
133A2 EGYPTIAN HIEROGLYPH V054
= 80
133A3 EGYPTIAN HIEROGLYPH V055
= 90

W. Vessels of stone and earthenware

133A4 EGYPTIAN HIEROGLYPH W001
133A5 EGYPTIAN HIEROGLYPH W002
133A6 EGYPTIAN HIEROGLYPH W003
133A7 EGYPTIAN HIEROGLYPH W003-A
133A8 EGYPTIAN HIEROGLYPH W004
133A9 EGYPTIAN HIEROGLYPH W005
133AA EGYPTIAN HIEROGLYPH W006
133AB EGYPTIAN HIEROGLYPH W007
133AC EGYPTIAN HIEROGLYPH W008
133AD EGYPTIAN HIEROGLYPH W009
133AE EGYPTIAN HIEROGLYPH W009-A
133AF EGYPTIAN HIEROGLYPH W010
133B0 EGYPTIAN HIEROGLYPH W010-A
133B1 EGYPTIAN HIEROGLYPH W011
= g
133B2 EGYPTIAN HIEROGLYPH W012
133B3 EGYPTIAN HIEROGLYPH W013
133B4 EGYPTIAN HIEROGLYPH W014
133B5 EGYPTIAN HIEROGLYPH W014-A
133B6 EGYPTIAN HIEROGLYPH W015
133B7 EGYPTIAN HIEROGLYPH W016
133B8 EGYPTIAN HIEROGLYPH W017
133B9 EGYPTIAN HIEROGLYPH W017-A
133BA EGYPTIAN HIEROGLYPH W018
133BB EGYPTIAN HIEROGLYPH W019
133BC EGYPTIAN HIEROGLYPH W020
133BD EGYPTIAN HIEROGLYPH W021
133BE EGYPTIAN HIEROGLYPH W022
133BF EGYPTIAN HIEROGLYPH W023
133C0 EGYPTIAN HIEROGLYPH W024
133C1 EGYPTIAN HIEROGLYPH W024-A
133C2 EGYPTIAN HIEROGLYPH W025

X. Loaves and cakes

133C3 EGYPTIAN HIEROGLYPH X001
= t
133C4 EGYPTIAN HIEROGLYPH X002
133C5 EGYPTIAN HIEROGLYPH X003
133C6 EGYPTIAN HIEROGLYPH X004
133C7 EGYPTIAN HIEROGLYPH X004-A
133C8 EGYPTIAN HIEROGLYPH X005
133C9 EGYPTIAN HIEROGLYPH X006
133CA EGYPTIAN HIEROGLYPH X006-A
133CB EGYPTIAN HIEROGLYPH X007
133CC EGYPTIAN HIEROGLYPH X008

Y. Writings, games, music

133CD EGYPTIAN HIEROGLYPH Y001
133CE EGYPTIAN HIEROGLYPH Y002
133CF EGYPTIAN HIEROGLYPH Y003
133D0 EGYPTIAN HIEROGLYPH Y004
133D1 EGYPTIAN HIEROGLYPH Y005
133D2 EGYPTIAN HIEROGLYPH Y006
133D3 EGYPTIAN HIEROGLYPH Y007
133D4 EGYPTIAN HIEROGLYPH Y008

Z. Strokes, signs derived from Hieratic, geometrical figures

133D5 EGYPTIAN HIEROGLYPH Z001
= 1
133D6 EGYPTIAN HIEROGLYPH Z001-A
= 1 in dates
133D7 EGYPTIAN HIEROGLYPH Z002
133D8 EGYPTIAN HIEROGLYPH Z002-A
= 3
133D9 EGYPTIAN HIEROGLYPH Z003
133DA EGYPTIAN HIEROGLYPH Z003-A
133DB EGYPTIAN HIEROGLYPH Z003-B
= 3 in dates
133DC EGYPTIAN HIEROGLYPH Z004
= y
→ 131BA egyptian hieroglyph m017-a
133DD EGYPTIAN HIEROGLYPH Z005
133DE EGYPTIAN HIEROGLYPH Z005-A
133DF EGYPTIAN HIEROGLYPH Z006
133E0 EGYPTIAN HIEROGLYPH Z007
133E1 EGYPTIAN HIEROGLYPH Z007-A
133E2 EGYPTIAN HIEROGLYPH Z008
133E3 EGYPTIAN HIEROGLYPH Z009
133E4 EGYPTIAN HIEROGLYPH Z010
133E5 EGYPTIAN HIEROGLYPH Z011
133E6 EGYPTIAN HIEROGLYPH Z012
133E7 EGYPTIAN HIEROGLYPH Z013
133E8 EGYPTIAN HIEROGLYPH Z014
= 2
133E9 EGYPTIAN HIEROGLYPH Z014-A
= 2 in dates
133EA EGYPTIAN HIEROGLYPH Z015
= 4
133EB EGYPTIAN HIEROGLYPH Z015-A
= 4
133EC EGYPTIAN HIEROGLYPH Z015-B
= 4 in dates
133ED EGYPTIAN HIEROGLYPH Z016
= 5
133EE EGYPTIAN HIEROGLYPH Z016-A
= 5
133EF EGYPTIAN HIEROGLYPH Z016-B
= 5 in dates
133F0 EGYPTIAN HIEROGLYPH Z016-C
= 5 in dates
133F1 EGYPTIAN HIEROGLYPH Z017
= 6
133F2 EGYPTIAN HIEROGLYPH Z017-A
= 6
133F3 EGYPTIAN HIEROGLYPH Z017-B
= 6 in dates
133F4 EGYPTIAN HIEROGLYPH Z018
= 7
133F5 EGYPTIAN HIEROGLYPH Z018-A
= 7
133F6 EGYPTIAN HIEROGLYPH Z018-B
= 7 in dates
133F7 EGYPTIAN HIEROGLYPH Z019
= 8
133F8 EGYPTIAN HIEROGLYPH Z019-A
= 8
133F9 EGYPTIAN HIEROGLYPH Z019-B
= 8 in dates

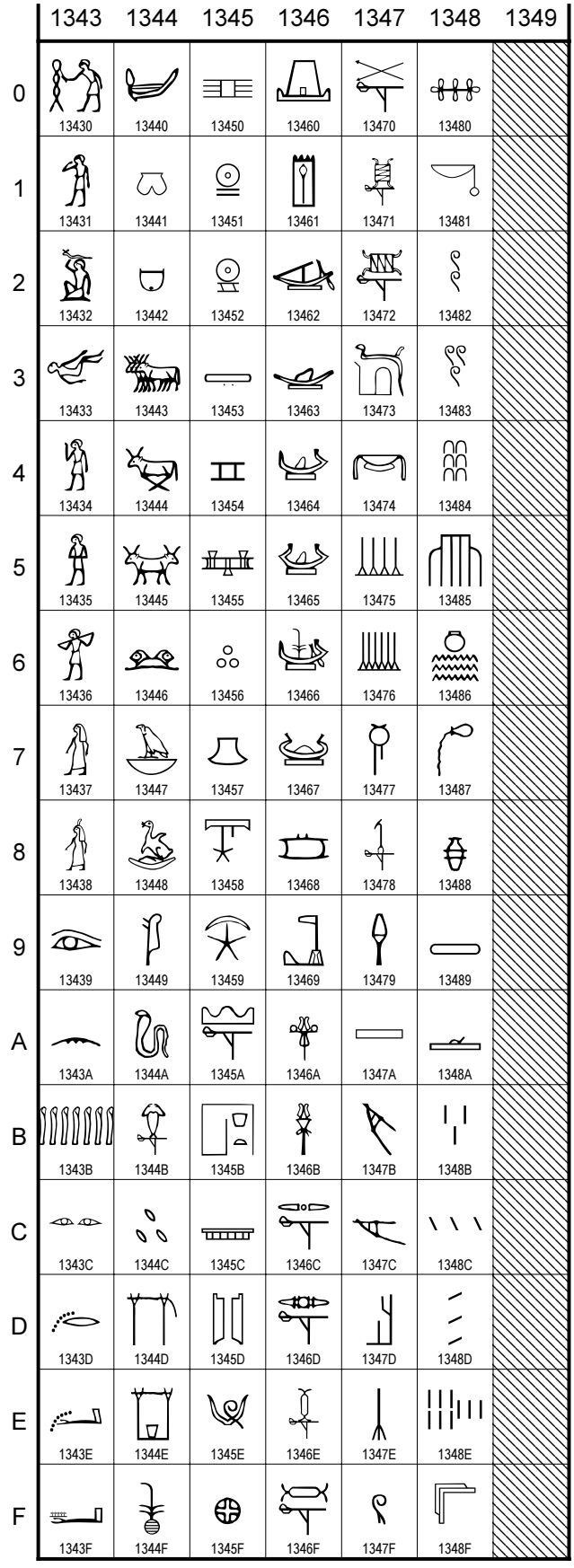
133FA EGYPTIAN HIEROGLYPH Z020
= 9
133FB EGYPTIAN HIEROGLYPH Z020-A
= 9
133FC EGYPTIAN HIEROGLYPH Z020-B
= 9 in dates
133FD EGYPTIAN HIEROGLYPH Z020-C
= 9 in dates

Aa. Unclassified

133FE EGYPTIAN HIEROGLYPH AA001
= kh
→ 0624 ؤ arabic letter khah
→ 1E2B ḫ latin small letter h with breve below
133FF EGYPTIAN HIEROGLYPH AA002
13400 EGYPTIAN HIEROGLYPH AA003
13401 EGYPTIAN HIEROGLYPH AA004
13402 EGYPTIAN HIEROGLYPH AA005
13403 EGYPTIAN HIEROGLYPH AA006
13404 EGYPTIAN HIEROGLYPH AA007
13405 EGYPTIAN HIEROGLYPH AA007-A
13406 EGYPTIAN HIEROGLYPH AA007-B
13407 EGYPTIAN HIEROGLYPH AA008
13408 EGYPTIAN HIEROGLYPH AA009
13409 EGYPTIAN HIEROGLYPH AA010
1340A EGYPTIAN HIEROGLYPH AA011
1340B EGYPTIAN HIEROGLYPH AA012
1340C EGYPTIAN HIEROGLYPH AA013
1340D EGYPTIAN HIEROGLYPH AA014
1340E EGYPTIAN HIEROGLYPH AA015
1340F EGYPTIAN HIEROGLYPH AA016
13410 EGYPTIAN HIEROGLYPH AA017
13411 EGYPTIAN HIEROGLYPH AA018
13412 EGYPTIAN HIEROGLYPH AA019
13413 EGYPTIAN HIEROGLYPH AA020
13414 EGYPTIAN HIEROGLYPH AA021
13415 EGYPTIAN HIEROGLYPH AA022
13416 EGYPTIAN HIEROGLYPH AA023
13417 EGYPTIAN HIEROGLYPH AA024
13418 EGYPTIAN HIEROGLYPH AA025
13419 EGYPTIAN HIEROGLYPH AA026
1341A EGYPTIAN HIEROGLYPH AA027
1341B EGYPTIAN HIEROGLYPH AA028
1341C EGYPTIAN HIEROGLYPH AA029
1341D EGYPTIAN HIEROGLYPH AA030
1341E EGYPTIAN HIEROGLYPH AA031
1341F EGYPTIAN HIEROGLYPH AA032

Ff. Signs for transcription from Hieratic

13420 EGYPTIAN HIEROGLYPH FF008
13421 EGYPTIAN HIEROGLYPH FF008-A


1343 1344 1345 1346 1347 1348 1349
0 13430 13440 13450 13460 13470 13480
1 13431 13441 13451 13461 13471 13481
2 13432 13442 13452 13462 13472 13482
3 13433 13443 13453 13463 13473 13483
4 13434 13444 13454 13464 13474 13484
5 13435 13445 13455 13465 13475 13485
6 13436 13446 13456 13466 13476 13486
7 13437 13447 13457 13467 13477 13487
8 13438 13448 13458 13468 13478 13488
9 13439 13449 13459 13469 13479 13489
A 1343A 1344A 1345A 1346A 1347A 1348A
B 1343B 1344B 1345B 1346B 1347B 1348B
C 1343C 1344C 1345C 1346C 1347C 1348C
D 1343D 1344D 1345D 1346D 1347D 1348D
E 1343E 1344E 1345E 1346E 1347E 1348E
F 1343F 1344F 1345F 1346F 1347F 1348F

Note to reviewers: This is a preliminary proposal. The code points shown are merely suggestions for a possible placement. The characters listed here are additional characters found in Allen 1999.

A. Man and his occupations

13430 EGYPTIAN HIEROGLYPH A025-A
13431 EGYPTIAN HIEROGLYPH A071
13432 EGYPTIAN HIEROGLYPH A072
13433 EGYPTIAN HIEROGLYPH A073
13434 EGYPTIAN HIEROGLYPH A074
13435 EGYPTIAN HIEROGLYPH A075
13436 EGYPTIAN HIEROGLYPH A076

B. Woman and her occupations

13437 EGYPTIAN HIEROGLYPH B010

C. Anthropomorphic deities

13438 EGYPTIAN HIEROGLYPH C025

D. Parts of the human body

13439 EGYPTIAN HIEROGLYPH D007-A
1343A EGYPTIAN HIEROGLYPH D024-A
1343B EGYPTIAN HIEROGLYPH D081-A
= 70,000
1343C EGYPTIAN HIEROGLYPH D084
1343D EGYPTIAN HIEROGLYPH D085
1343E EGYPTIAN HIEROGLYPH D086
1343F EGYPTIAN HIEROGLYPH D087
13440 EGYPTIAN HIEROGLYPH D088
13441 EGYPTIAN HIEROGLYPH D089
13442 EGYPTIAN HIEROGLYPH D090

E. Mammals

13443 EGYPTIAN HIEROGLYPH E039
13444 EGYPTIAN HIEROGLYPH E040
13445 EGYPTIAN HIEROGLYPH E041
13446 EGYPTIAN HIEROGLYPH E042

G. Birds

13447 EGYPTIAN HIEROGLYPH G014-A
13448 EGYPTIAN HIEROGLYPH G048-A

H. Parts of birds

13449 EGYPTIAN HIEROGLYPH H006-B

I. Amphibious animals, reptiles, etc.

1344A EGYPTIAN HIEROGLYPH I016

L. Invertebrata and lesser animals

1344B EGYPTIAN HIEROGLYPH L007-A

M. Trees and plants

1344C EGYPTIAN HIEROGLYPH M033-C
1344D EGYPTIAN HIEROGLYPH M043-A
1344E EGYPTIAN HIEROGLYPH M043-B
1344F EGYPTIAN HIEROGLYPH M053
13450 EGYPTIAN HIEROGLYPH M054

N. Sky, earth, water

13451 EGYPTIAN HIEROGLYPH N005-A
13452 EGYPTIAN HIEROGLYPH N005-B
13453 EGYPTIAN HIEROGLYPH N016-A
13454 EGYPTIAN HIEROGLYPH N023-A
13455 EGYPTIAN HIEROGLYPH N031-A
13456 EGYPTIAN HIEROGLYPH N033-B
13457 EGYPTIAN HIEROGLYPH N034-B
13458 EGYPTIAN HIEROGLYPH N043
13459 EGYPTIAN HIEROGLYPH N044
1345A EGYPTIAN HIEROGLYPH N045

O. Buildings, parts of buildings, etc.

1345B EGYPTIAN HIEROGLYPH O015-A
1345C EGYPTIAN HIEROGLYPH O031-A
1345D EGYPTIAN HIEROGLYPH O031-B
1345E EGYPTIAN HIEROGLYPH O044-A
1345F EGYPTIAN HIEROGLYPH O049-A
13460 EGYPTIAN HIEROGLYPH O051-A
13461 EGYPTIAN HIEROGLYPH O052

P. Ships and parts of ships

13462 EGYPTIAN HIEROGLYPH P001-B
13463 EGYPTIAN HIEROGLYPH P001-C
13464 EGYPTIAN HIEROGLYPH P003-B
13465 EGYPTIAN HIEROGLYPH P003-C
13466 EGYPTIAN HIEROGLYPH P003-D
13467 EGYPTIAN HIEROGLYPH P004-A
13468 EGYPTIAN HIEROGLYPH P005-A

R. Temple furniture and sacred emblems

13469 EGYPTIAN HIEROGLYPH R010-B
1346A EGYPTIAN HIEROGLYPH R015-A
1346B EGYPTIAN HIEROGLYPH R017-A
1346C EGYPTIAN HIEROGLYPH R022-A
1346D EGYPTIAN HIEROGLYPH R023-A
1346E EGYPTIAN HIEROGLYPH R024-A
1346F EGYPTIAN HIEROGLYPH R024-B
13470 EGYPTIAN HIEROGLYPH R024-C
13471 EGYPTIAN HIEROGLYPH R025-A
13472 EGYPTIAN HIEROGLYPH R025-B
13473 EGYPTIAN HIEROGLYPH R030

S. Crowns, dress, staves, etc.

13474 EGYPTIAN HIEROGLYPH S012-A
13475 EGYPTIAN HIEROGLYPH S027-A
13476 EGYPTIAN HIEROGLYPH S027-B
13477 EGYPTIAN HIEROGLYPH S028-A
13478 EGYPTIAN HIEROGLYPH S040-A
13479 EGYPTIAN HIEROGLYPH S042-A
1347A EGYPTIAN HIEROGLYPH S047

U. Agriculture, crafts, and professions

1347B EGYPTIAN HIEROGLYPH U006-C
1347C EGYPTIAN HIEROGLYPH U007-A
1347D EGYPTIAN HIEROGLYPH U040-A
1347E EGYPTIAN HIEROGLYPH U042-A

V. Rope, fibre, baskets, bags, etc.

1347F EGYPTIAN HIEROGLYPH V001-A
= 100
13480 EGYPTIAN HIEROGLYPH V016-A
13481 EGYPTIAN HIEROGLYPH V032-A
13482 EGYPTIAN HIEROGLYPH V040-A
= 200
13483 EGYPTIAN HIEROGLYPH V041-A
= 300
13484 EGYPTIAN HIEROGLYPH V052-A
= 60

W. Vessels of stone and earthenware

13485 EGYPTIAN HIEROGLYPH W018-A
13486 EGYPTIAN HIEROGLYPH W024-B
13487 EGYPTIAN HIEROGLYPH W026
13488 EGYPTIAN HIEROGLYPH W027

X. Loaves and cakes

13489 EGYPTIAN HIEROGLYPH X004-B

Y. Writings, games, music

1348A EGYPTIAN HIEROGLYPH Y001-A

Z. Strokes, signs derived from Hieratic, geometrical figures

1348B EGYPTIAN HIEROGLYPH Z002-B
= 3

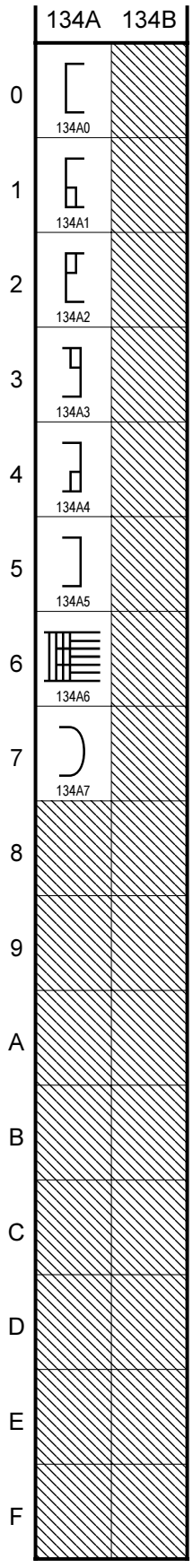
1348C EGYPTIAN HIEROGLYPH Z002-C
= 3

1348D EGYPTIAN HIEROGLYPH Z003-C
= 3

1348E EGYPTIAN HIEROGLYPH Z020-D
= 9

Aa. Unclassified

1348F EGYPTIAN HIEROGLYPH AA005-A


134A
134B
0
134A0
1
134A1
2
134A2
3
134A3
4
134A4
5
134A5
6
134A6
7
134A7
8
9
A
B
C
D
E
F

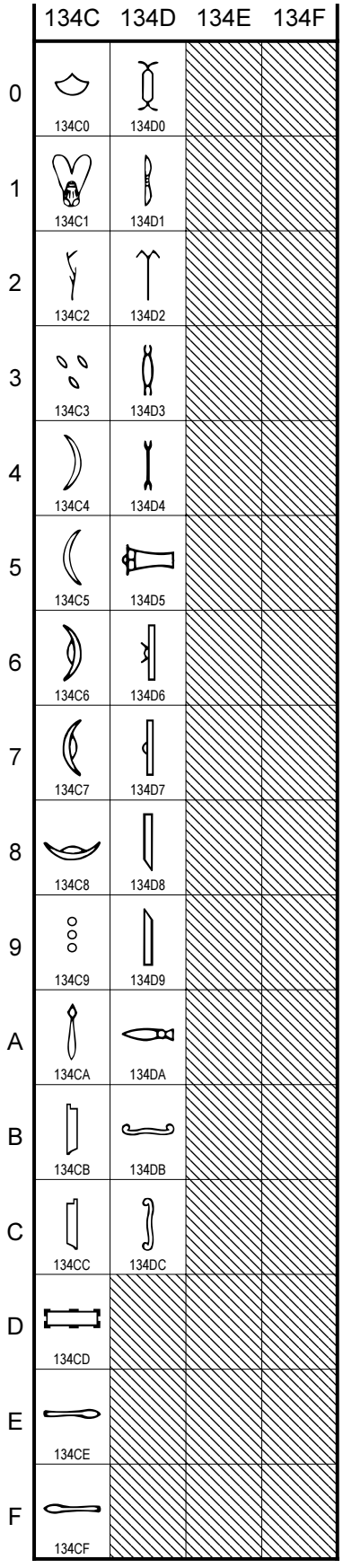
Note to reviewers: This is a preliminary proposal. The code points shown are merely suggestions for a possible placement. The characters here are additional enclosure characters.

O. Buildings, parts of buildings, etc.

134A0 EGYPTIAN HIEROGLYPH O006-A
134A1 EGYPTIAN HIEROGLYPH O006-B
134A2 EGYPTIAN HIEROGLYPH O006-C
134A3 EGYPTIAN HIEROGLYPH O006-D
134A4 EGYPTIAN HIEROGLYPH O006-E
134A5 EGYPTIAN HIEROGLYPH O006-F
134A6 EGYPTIAN HIEROGLYPH O033-A

V. Rope, fibre, baskets, bags, etc.

134A7 EGYPTIAN HIEROGLYPH V011-C


134C
134D
134E
134F
0
1
2
3
4
5
6
7
8
9
A
B
C
D
E
F
134C0
134D0
134C1
134D1
134C2
134D2
134C3
134D3
134C4
134D4
134C5
134D5
134C6
134D6
134C7
134D7
134C8
134D8
134C9
134D9
134CA
134DA
134CB
134DB
134CC
134DC
134CD
134CE
134CF

Note to reviewers: This is a preliminary proposal. The code points shown are merely suggestions for a possible placement. The characters here are rotated and mirrored signs found in Gardiner and elsewhere but to which Gardiner did not give catalogue numbers.

K. Fishes and parts of fishes

134C0 EGYPTIAN HIEROGLYPH K006-A

L. Invertebrata and lesser animals

134C1 EGYPTIAN HIEROGLYPH L003-A

M. Trees and plants

134C2 EGYPTIAN HIEROGLYPH M003-A
134C3 EGYPTIAN HIEROGLYPH M033-B
x belongs in the main Gardiner set; cf also “it” in Faulkner

N. Sky, earth, water

134C4 EGYPTIAN HIEROGLYPH N011-A
134C5 EGYPTIAN HIEROGLYPH N011-B
134C6 EGYPTIAN HIEROGLYPH N012-A
134C7 EGYPTIAN HIEROGLYPH N012-B
134C8 EGYPTIAN HIEROGLYPH N012-C
134C9 EGYPTIAN HIEROGLYPH N033-B

O. Buildings, parts of buildings, etc.

134CA EGYPTIAN HIEROGLYPH O029-A
134CB EGYPTIAN HIEROGLYPH O031-A
134CC EGYPTIAN HIEROGLYPH O031-B
134CD EGYPTIAN HIEROGLYPH O036-A

P. Ships and parts of ships

134CE EGYPTIAN HIEROGLYPH P008-A
134CF EGYPTIAN HIEROGLYPH P008-B

R. Temple furniture and sacred emblems

134D0 EGYPTIAN HIEROGLYPH R024-A

T. Warfare, hunting, butchery

134D1 EGYPTIAN HIEROGLYPH T010-A

U. Agriculture, crafts, and professions

134D2 EGYPTIAN HIEROGLYPH U031-A

V. Rope, fibre, baskets, bags, etc.

134D3 EGYPTIAN HIEROGLYPH V026-A
134D4 EGYPTIAN HIEROGLYPH V027-A

W. Vessels of stone and earthenware

134D5 EGYPTIAN HIEROGLYPH W002-A

Y. Writings, games, music

134D6 EGYPTIAN HIEROGLYPH Y001-B
134D7 EGYPTIAN HIEROGLYPH Y002-A

Aa. Unclassified

134D8 EGYPTIAN HIEROGLYPH AA011-A
134D9 EGYPTIAN HIEROGLYPH AA011-B
134DA EGYPTIAN HIEROGLYPH AA030-A
134DB EGYPTIAN HIEROGLYPH AA032-A
134DC EGYPTIAN HIEROGLYPH AA032-B

UniKemet database of Egyptian Hieroglyphs for UCS encoding

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	0
A001	544:A1	17:A1								423:A1	A1	1
A002	544:A2	17:A2								423:A2	A2	1
A003	544:A3	17:A3								423:A3	A3	1
A004	544:A4	17:A4								423:A4	A4	1
A005	544:A5	17:A5								423:A5	A5	1
A005-A					2:A5*						A5A	1
A006	544:A6	17:A6								423:A6	A6	1
A006-A					2:A6*						A6N	1
A006-B						8-4:5:650					A6M	1
A007	544:A7	17:A7								423:A7	A7	1
A008	544:A8	17:A8								423:A8	A8	1
A009	544:A9	17:A9								423:A9	A9	1
A010	544:A10	17:A10								423:A10	A10	1
A011	544:A11	17:A11								423:A11	A11	1
A012	544:A12	17:A12								423:A12	A12	1
A013	544:A13	17:A13								423:A13	A13	1
A014	544:A14	17:A14								424:A14	A14	1
A014-A	544:A14*			245:A14*	2:A14*					424:A14a	A14A	1
A015	544:A15	17:A15								424:A15	A15	1
A016	544:A16	17:A16								424:A16	A16	1
A017	544:A17	17:A17								424:A17	A17	1
A017-A	544:A17*				2:A17*					424:A17a	A17A	1
A018	544:A18	17:A18								424:A18	A18	1
A019	544:A19	17:A19								424:A19	A19	1
A020	544:A20	17:A20								424:A20	A20	1
A021	544:A21	17:A21								424:A21	A21	1
A022	544:A22	17:A22								424:A22	A22	1
A023	544:A23	17:A23								424:A23	A23	1
A024	544:A24	17:A24								424:A24	A24	1
A025	544:A25	17:A25								424:A25	A25	1
A026	544:A26	17:A26								424:A26	A26	1

UniKemet database of Egyptian Hieroglyphs for UCS encoding

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
A027	544:A27	17:A27								424:A27	A27	1
A028	544:A28	17:A28								424:A28	A28	1
A029	544:A29	17:A29								424:A29	A29	1
A030	544:A30	17:A30								424:A30	A30	1
A031	544:A31	17:A31								424:A31	A31	1
A032	544:A32	17:A32								424:A32	A32	1
A032-A		17:A32*									A32A	1
A033	544:A33	17:A33								424:A33	A33	1
A034	544:A34	17:A34								424:A34	A34	1
A035	544:A35	17:A35								424:A35	A35	1
A036	544:A36	17:A36								424:A36	A36	1
A037	544:A37	17:A37								424:A37	A37	1
A038	544:A38	17:A38								424:A38	A38	1
A039	544:A39	17:A39								424:A39	A39	1
A040	544:A40	17:A40								425:A40	A40	1
A040-A					2:C22						A40A	1
A041	544:A41	17:A41								425:A41	A41	1
A042	544:A42	18:142								425:A42	A42	1
A042-A				245:A42*	2:A42*							1
A043	544:A43	18:A43								425:A43	A43	1
A043-A					2:C21						A43D	1
A044	544:A44	18:A44								425:A44	A44	1
A045	544:A45	18:A45								425:A45	A45	1
A045-A						GITB ref					A45B	1
A046	544:A46	18:A46								425:A46	A46	1
A047	544:A47	18:A47								425:A47	A47	1
A048	544:A48	18:A48								425:A48	A48	1
A049	544:A49	18:A49								425:A49	A49	1
A050	544:A50	18:A50								425:A50	A50	1
A051	544:A51	18:A51								425:A51	A51	1
A052	544:A52	18:A52								425:A52	A52	1
A053	544:A53	18:A53								425:A53	A53	1

UniKemet database of Egyptian Hieroglyphs for UCS encoding

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
A054	544:A54	18:A54								425:A54	A54	1
A055	544:A55	18:A55								425:A55	A55	1
A056		18:A56									A56	1
A057		18:A57									A57	1
A058		18:A58									A58	1
A059			95:A59		2:A59					424:A59	A59	1
A060			95:A60		2:A60						A60	1
A061				245:A61	2:A61						A61	1
A062				245:A62	2:A62						A62	1
A063				245:A63	2:A63						A63	1
A064					2:A64						A64	1
A065					2:A65						A469	1
A066					2:A66						A239	1
A067					2:A67						A282	1
A068					2:A68						A199A	1
A069						GITB ref				423:A68	A68	1
A070						8-1:626:810					A73	1
B001	544:B1	19:B1								425:B1	B1	1
B002	544:B2	19:B2								425:B2	B2	1
B003	544:B3	19:B3								425:B3	B3	1
B004	544:B4	19:B4								425:B4	B4	1
B005	544:B5	19:B5								425:B5	B5	1
B005-A						8-4:13:500					B106	1
B006	544:B6	19:B6								425:B6	B6	1
B007	544:B7		95:B7		2:B7					425:B7	B7	1
B008				245:B8	2:B8						B8	1
B009						8-1:690:370					B47	1
C001	544:C1	19:C1								425:C1	C1	1
C002	544:C2	19:C2								425:C2	C2	1
C002-A					2:C2*						C2A	1
C002-B					2:C2**							1
C002-C					2:C2***							1

UniKemet database of Egyptian Hieroglyphs for UCS encoding

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
C003	544:C3	19:C3								425:C3	C3	1
C004	544:C4	19:C4								425:C4	C4	1
C005	544:C5	19:C5								425:C5	C5	1
C006	544:C6	19:C6								426:C6	C6	1
C007	544:C7	19:C7								426:C7	C7	1
C008	544:C8	19:C8								426:C8	C8	1
C009	544:C9	19:C9								426:C9	C9	1
C010	544:C10	19:C10								426:C10	C10	1
C010-A		19:C10*								426:C10a	C10A	1
C011	544:C11	19:C11					63:AAg655			426:C11	C11	1
C012	544:C12			245:C12	2:C12					426:C12	C12	1
C013				245:C13	2:C13							1
C014				245:C14	2:C14						C14	1
C015				245:C15	2:C15							1
C016				245:C16	2:C16						C16	1
C017	544:C17			245:C17	2:C17					426:C17	C17	1
C018	544:C18			246:C18	2:C18					426:C18	C18	1
C019	544:C19			246:C19	2:C19					426:C19	C19	1
C020	544:C20			246:C20	2:C20					426:C20	C20	1
C021						8-1:751:278					C33	1
C022						8-1:727:370					C49B	1
C023						GITB ref					C165	1
C024						8-1:753:130					C185B	1
D001	544:D1	20:D1								426:D1	D1	1
D002	544:D2	20:D2								426:D2	D2	1
D003	544:D3	20:D3								426:D3	D3	1
D004	544:D4	20:D4								426:D4	D4	1
D005	544:D5	20:D5								426:D5	D5	1
D006	544:D6	20:D6								426:D6	D6	1
D007	544:D7	20:D7								426:D7	D7	1
D008	544:D8	20:D8								426:D8	D8	1
D008-A		20:D8*									D8A	1

UniKemet database of Egyptian Hieroglyphs for UCS encoding

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
D009	544:D9	20:D9								426:D9	D9	1
D010	544:D10	20:D10								426:D10	D10	1
D011	544:D11	20:D11								426:D11	D11	1
D012	544:D12	20:D12								426:D12	D12	1
D013	544:D13	20:D13								426:D13	D13	1
D014	544:D14	20:D14								426:D14	D14	1
D015	544:D15	20:D15								426:D15	D15	1
D016	544:D16	20:D16								426:D16	D16	1
D017	544:D17	20:D17								426:D17	D17	1
D018	544:D18	20:D18								426:D18	D18	1
D019	544:D19	20:D19								426:D19	D19	1
D020	544:D20	20:D20								426:D20	D20	1
D021	544:D21	20:D21								427:D21	D21	1
D022	544:D22	20:D22								427:D22	D22	1
D023	544:D23	20:D23								427:D23	D23	1
D024	544:D24	20:D24								427:D24	D24	1
D025	544:D25	20:D25								427:D25	D25	1
D026	544:D26	20:D26								427:D26	D26	1
D027	544:D27	20:D27								427:D27	D27	1
D027-A	544:D27*	20:D27*								427:D27a	D27A	1
D028	544:D28	20:D28								427:D28	D28	1
D029	544:D29	20:D29								427:D29	D29	1
D030	544:D30	20:D30								427:D30	D30	1
D031	544:D31	20:D31								427:D31	D31	1
D031-A					3:D31*						D31A	1
D032	544:D32	20:D32								427:D32	D32	1
D033	544:D33	20:D33								427:D33	D33	1
D034	544:D34	20:D34								427:D34	D34	1
D034-A	544:D34*	20:D34*								427:D34a	D34A	1
D035	544:D35	20:D35								427:D35	D35	1
D036	544:D36	20:D36								427:D36	D36	1
D037	544:D37	20:D37								427:D37	D37	1

UniKemet database of Egyptian Hieroglyphs for UCS encoding

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
D038	544:D38	20:D38								427:D38	D38	1
D039	544:D39	20:D39								427:D39	D39	1
D040	544:D40	20:D40								427:D40	D40	1
D041	544:D41	20:D41								427:D41	D41	1
D042	544:D42	20:D42								427:D42	D42	1
D043	544:D43	20:D43								427:D43	D43	1
D044	544:D44	20:D44								427:D44	D44	1
D045	544:D45	20:D45								427:D45	D45	1
D046	544:D46	20:D46								427:D46	D46	1
D046-A	544:D46*	20:D46*								427:D46a	D46A	1
D047		20:D47								427:D47	D47	1
D048	544:D48	21:D48								427:D48	D48	1
D048-A					3:D48*						D48A	1
D049	544:D49	21:D49								427:D49	D49	1
D050	544:D50	21:D50					63:AAe650	59:AAe650		427:D50	D50	1
D051	544:D51	21:D51								428:D51	D51	1
D052	544:D52	21:D52								428:D52	D52	1
D052-A				246:D52*	3:D52*						S125	1
D053	544:D53	21:D53								428:D53	D53	1
D054	544:D54	21:D54								428:D54	D54	1
D054-A			95:Ff3									1
D055	544:D55	21:D55								428:D55	D55	1
D056	544:D56	21:D56								428:D56	D56	1
D057	544:D57	21:D57								428:D57	D57	1
D058	544:D58	21:D58								428:D58	D58	1
D059	544:D59	21:D59								428:D59	D59	1
D060	544:D60	21:D60								428:D60	D60	1
D061	544:D61	21:D61								428:D61	D61	1
D062	544:D62	21:D63								428:D62	D62	1
D063	544:D63	21:D63								428:D63	D63	1
D064					3:D64						D271	1
D065					3:D65						D132	1

UniKemet database of Egyptian Hieroglyphs for UCS encoding

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
D066					3:D66						D66	1
D067	199:1						66:DDc695		63:DDc695			1
D068	198:2						66:DDc696					1
D068-A	199:2							62:DDc696	63:DDc696			1
D069							66:DDc697					1
D069-A							54:Y563					1
D069-B	199:3						66:DDc697b	62:DDc697	63:DDc697			1
D070							66:DDc698					1
D070-A										102:4		1
D071							66:DDc699			102:5		1
D072	192:6						66:DDc700			102:6		1
D073	198:7						66:DDc701					1
D074	198:8						66:DDc702			102:8		1
D075												1
D076	199:20000						63:AAe651	59:AAe651				1
D077							63:AAe652	59:AAe652				1
D078							63:AAe653	59:AAe653				1
D079	191:50000							59:AAe653B		97:50000		1
D080								59:AAe653C				1
D081								59:AAe653D				1
D082								59:AAe653E				1
D083								59:AAe653F				1
E001	544:E1	22:E1								428:E1	E1	1
E002	544:E2	22:E2								428:E2	E2	1
E003	544:E3	22:E3								428:E3	E3	1
E004	544:E4	22:E4								428:E4	E4	1
E005	544:E5	22:E5								428:E5	E5	1
E006	544:E6	22:E6								428:E6	E6	1
E007	544:E7	22:E7								428:E7	E7	1
E008	544:E8	22:E8								428:E8	E8	1
E008-A	544:E8*			246:E8*	3:E8*					428:E8a	E8A	1
E009	544:E9	22:E9								428:E9	E9	1

UniKemet database of Egyptian Hieroglyphs for UCS encoding

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
E009-A					3:E9*						E100	1
E010	544:E10	22:E10								428:E10	E10	1
E011	544:E11	22:E11								428:E11	E11	1
E012	544:E12	22:E12								428:E12	E12	1
E013	544:E13	22:E13								428:E13	E13	1
E014	544:E14	22:E14								429:E14	E14	1
E015	544:E15	22:E15								429:E15	E15	1
E016	544:E16	22:E16								429:E16	E16	1
E016-A					3:E16*						E16C	1
E017	544:E17	22:E17								429:E17	E17	1
E017-A						8-2:134:610					E141	1
E018	544:E18	22:E18								429:E18	E18	1
E019	544:E19	22:E19								429:E19	E19	1
E020	544:E20	22:E20								429:E20	E20	1
E020-A		22:E20*									E20B	1
E021	544:E21	22:E21								429:E21	E21	1
E022	544:E22	22:E22								429:E22	E22	1
E023	544:E23	22:E23								429:E23	E23	1
E024	544:E24	22:E24								429:E24	E24	1
E025	544:E25	22:E25								429:E25	E25	1
E026	544:E26	22:E26								429:E26	E26	1
E027	544:E27	22:E27								429:E27	E27	1
E028	544:E28	22:E28								429:E28	E28	1
E028-A		22:E28*									E28A	1
E029	544:E29	22:E29								429:E29	E29	1
E030	544:E30	22:E30								429:E30	E30	1
E031	544:E31	22:E31								429:E31	E31	1
E032	544:E32	22:E32								429:E32	E32	1
E033	544:E33	22:E33								429:E33	E33	1
E034	544:E34	22:E34								429:E34	E34	1
E034-A		22:E34*										1
E035		22:E35			7:NnU15						E34B	1

UniKemet database of Egyptian Hieroglyphs for UCS encoding

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
E036					3:E36						E35	1
E037					3:E37						E45	1
E038					3:E38						E92	1
F001	544:F1	23:F1								429:F1	F1	1
F001-A				246:F1*	3:F1*					429:F63	F1B	1
F002	544:F2	23:F2								429:F2	F2	1
F003	544:F3	23:F3								429:F3	F3	1
F004	544:F4	23:F4								429:F4	F4	1
F005	544:F5	23:F5								429:F5	F5	1
F006	544:F6	23:F6								429:F6	F6	1
F007	544:F7	23:F7								429:F7	F7	1
F008	544:F8	23:F8								429:F8	F8	1
F009	544:F9	23:F9								429:F9	F9	1
F010	544:F10	23:F10								429:F10	F10	1
F011	544:F11	23:F11								429:F11	F11	1
F012	544:F12	23:F12								429:F12	F12	1
F013	544:F13	23:F13								429:F13	F13	1
F013-A		23:F13*									F13B	1
F014	544:F14	23:F14								430:F14	F14	1
F015	544:F15	23:F15								430:F15	F15	1
F016	544:F16	23:F16								430:F16	F16	1
F017	544:F17	23:F17								430:F17	F17	1
F018	544:F18	23:F18								430:F18	F18	1
F019	544:F19	23:F19								430:F19	F19	1
F020	544:F20	23:F20								430:F20	F20	1
F021	544:F21	23:F21								430:F21	F21	1
F021-A			95:Ff4									1
F022	544:F22	23:F22								430:F22	F22	1
F023	544:F23	23:F23								430:F23	F23	1
F024	544:F24	23:F24								430:F24	F24	1
F025	544:F25	23:F25								430:F25	F25	1
F026	544:F26	23:F26								430:F26	F26	1

UniKemet database of Egyptian Hieroglyphs for UCS encoding

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
F027	544:F27	23:F27								430:F27	F27	1
F028	544:F28	23:F28								430:F28	F28	1
F029	544:F29	23:F29								430:F29	F29	1
F030	544:F30	23:F30								430:F30	F30	1
F031	544:F31	23:F31								430:F31	F31	1
F031-A					3:F31						F31A	1
F032	544:F32	23:F32								430:F32	F32	1
F033	544:F33	23:F33								430:F33	F33	1
F034	544:F34	23:F34								430:F34	F34	1
F035	544:F35	23:F35								430:F35	F35	1
F036	544:F36	23:F36								430:F36	F36	1
F037	544:F37	23:F37								430:F37	F37	1
F037-A					6:Ff9					430:F37b	F37B	1
F038	544:F38	23:F38								430:F38	F38	1
F038-A		23:F38*									F38C	1
F039	544:F39	23:F39								430:F39	F39	1
F040	544:F40	23:F40								430:F40	F40	1
F041	544:F41	23:F41								430:F41	F41	1
F042	544:F42	23:F42								430:F42	F42	1
F043	544:F43	23:F43								430:F43	F43	1
F044	544:F44	23:F44								430:F44	F44	1
F045	544:F45	23:F45								430:F45	F45	1
F046	544:F46	23:F46								430:F46	F46	1
F046-A	466:(F46)										F46A	1
F047	544:F47	24:F47								430:F47	F47	1
F047-A	466:(F47)										F47A	1
F048	544:F48	24:F48								430:F48	F48	1
F049	544:F49	24:F49								430:F49	F49	1
F050	544:F50	24:F50								430:F50	F50	1
F051	544:F51	24:F51								431:F51	F51	1
F051-A		24:F51*									F51G	1
F051-B		24:F51**									F51GV	1

UniKemet database of Egyptian Hieroglyphs for UCS encoding

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
F051-C	467:F51n4									431:F51(a)	F51A	1
F052	544:F52	24:F52								431:F52	F52	1
F053						8-1:797:520					F59	1
G001	545:G1	25:G1								431:G1	G1	1
G002	545:G2	25:G2								431:G2	G2	1
G003	545:G3	25:G3								431:G3	G3	1
G004	545:G4	25:G4								431:G4	G4	1
G005	545:G5	25:G5								431:G5	G5	1
G006	545:G6	25:G6								431:G6	G6	1
G006-A		25:G6*									G6A	1
G007	545:G7	25:G7								431:G7	G7	1
G007-A	545:G7*			246:G7*	3:G7*					431:G7a	G7A	1
G007-B	545:G7**			246:G7**	3:G7**					431:G7b	G7B	1
G008	545:G8	25:G8								431:G8	G8	1
G009	545:G9	25:G9								431:G9	G9	1
G010	545:G10	25:G10								431:G10	G10	1
G011	545:G11	25:G11								431:G11	G11	1
G011-A				246:G11*	3:G11*						G11A	1
G012	545:G12	25:G12								431:G12	G12	1
G013	545:G13	25:G13								431:G13	G13	1
G014	545:G14	25:G14								431:G14	G14	1
G015	545:G15	25:G15								431:G15	G15	1
G016	545:G16	25:G16								431:G16	G16	1
G017	545:G17	25:G17								431:G17	G17	1
G018	545:G18	25:G18								431:G18	G18	1
G019	545:G19	25:G19								431:G19	G19	1
G020	545:G20	25:G20								431:G20	G20	1
G020-A					3:G20*						G90	1
G021	545:G21	25:G21								431:G21	G21	1
G022	545:G22	25:G22								431:G22	G22	1
G023	545:G23	25:G23								431:G23	G23	1
G024	545:G24	25:G24								431:G24	G24	1

UniKemet database of Egyptian Hieroglyphs for UCS encoding

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
G025	545:G25	25:G25								431:G25	G25	1
G026	545:G26	25:G26								432:G26	G26	1
G026-A	545:G26*				3:G26*					432:G26a	G26A	1
G027	545:G27	25:G27								432:G27	G27	1
G028	545:G28	25:G28								432:G28	G28	1
G029	545:G29	25:G29								432:G29	G29	1
G030	545:G30	25:G30								432:G30	G30	1
G031	545:G31	25:G31								432:G31	G31	1
G032	545:G32	25:G32								432:G32	G32	1
G033	545:G33	25:G33								432:G33	G33	1
G034	545:G34	25:G34								432:G34	G34	1
G035	545:G35	25:G35								432:G35	G35	1
G036	545:G36	25:G36								432:G36	G36	1
G036-A		25:G36*									G36A	1
G037	545:G37	25:G37								432:G37	G37	1
G037-A		25:G37*									G37A	1
G038	545:G38	25:G38								432:G38	G38	1
G039	545:G39	25:G39								432:G39	G39	1
G040	545:G40	25:G40								432:G40	G40	1
G041	545:G41	26:G41								432:G41	G41	1
G042	545:G42	26:G42								432:G42	G42	1
G043	545:G43	26:G43								432:G43	G43	1
G043-A		26:G43*										1
G044	545:G44	26:G44								432:G44	G44	1
G045	545:G45	26:G45								432:G45	G45	1
G045-A					3:G45*						G45A	1
G046	545:G46	26:G46								432:G46	G46	1
G047	545:G47	26:G47								432:G47	G47	1
G048	545:G48	26:G48								432:G48	G48	1
G049	545:G49	26:G49								432:G49	G49	1
G050	545:G50	26:G50								432:G50	G50	1
G051	545:G51	26:G51								432:G51	G51	1

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
G052	545:G52	26:G52								432:G52	G52	1
G053	545:G53	26:G53								432:G53	G53	1
G054	545:G54	26:G54								432:G54	G54	1
H001	545:H1	27:H1								433:H1	H1	1
H002	545:H2	27:H2								433:H2	H2	1
H003	545:H3	27:H3								433:H3	H3	1
H004	545:H4	27:H4								433:H4	H4	1
H005	545:H5	27:H5								433:H5	H5	1
H006	545:H6	27:H6								433:H6	H6	1
H006-A	545:H6*		95:Ff5		3:H6*					433:H6a	H6A	1
H007	545:H7	27:H7								433:H7	H7	1
H008	545:H8	27:H8								433:H8	H8	1
I001	545:I1	27:I1								433:I1	I1	1
I002	545:I2	27:I2								433:I2	I2	1
I003	545:I3	27:I3								433:I3	I3	1
I004	545:I4	27:I4								433:I4	I4	1
I005	545:I5	27:I5								433:I5	I5	1
I005-A	545:I5A		95:I5*		4:I5*					433:I5a	I5A	1
I006	545:I6	27:I6								433:I6	I6	1
I007	545:I7	27:I7								433:I7	I7	1
I008	545:I8	27:I8					63:AAf654	59:AAf654		433:I8	I8	1
I009	545:I9	27:I9								433:I9	I9	1
I009-A					4:I9*						I24	1
I010	545:I10	27:I10								433:I10	I10	1
I010-A					4:I10*						I31	1
I011	545:I11	27:I11								433:I11	I11	1
I011-A		27:I11*									I11A	1
I012	545:I12	27:I12								433:I12	I12	1
I013	545:I13	27:I13								433:I13	I13	1
I014	545:I14	27:I14								433:I14	I14	1
I015	545:I15	27:I15								433:I15	I15	1
K001	545:K1	28:K1								433:K1	K1	1

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
K002	545:K2	28:K2								433:K2	K2	1
K003	545:K3	28:K3								433:K3	K3	1
K004	545:K4	28:K4								434:K4	K4	1
K005	545:K5	28:K5								434:K5	K5	1
K006	545:K6	28:K6								434:K6	K6	1
K007	545:K7	28:K7								434:K7	K7	1
K008					4:K8						K13	1
L001	545:L1	28:L1								434:L1	L1	1
L002	545:L2	28:L2								434:L2	L2	1
L002-A		28:L2*									L2A	1
L003	477:L3	28:L3									L3U	1
L004	545:L4	28:L4								434:L4	L4	1
L005	545:L5	28:L5								434:L5	L5	1
L006	545:L6	28:L6								434:L6	L6	1
L006-A		28:L6*									L6A	1
L007	545:L7	28:L7								434:L7	L7	1
L008						8-1:221:400					L35	1
M001	545:M1	29:M1								434:M1	M1	1
M001-A		29:M1*								434:M1a	M1A	1
M001-B					4:M1**						M1E	1
M002	545:M2	29:M2								434:M2	M2	1
M003	545:M3	29:M3								434:M3	M3	1
M003-A					4:M3*						M3G	1
M004	545:M4	29:M4								434:M4	M4	1
M005	545:M5	29:M5								434:M5	M5	1
M006	545:M6	29:M6								434:M6	M6	1
M007	545:M7	29:M7								434:M7	M7	1
M008	545:M8	29:M8								434:M8	M8	1
M009	545:M9	29:M9								434:M9	M9	1
M010	545:M10	29:M10								434:M10	M10	1
M010-A		29:M10*									M10A	1
M011	545:M11	29:M11								434:M11	M11	1

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Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
M012	545:M12	29:M12					62:AAd641	58:AAd641		434:M12	M12	1
M013	545:M13	29:M13								434:M13	M13	1
M014	545:M14	29:M14								434:M14	M14	1
M015	545:M15	29:M15								435:M15	M15	1
M015-A						8-1:750:190					M139	1
M016	545:M16	29:M16								435:M16	M16	1
M016-A				246:M16*	4:M16*						M139B	1
M017	545:M17	29:M17								435:M17	M17	1
M017-A	481:y									435:y	M17A	1
M018	545:M18	29:M18								435:M18	M18	1
M019	545:M19	29:M19								435:M19	M19	1
M020	545:M20	29:M20								435:M20	M20	1
M021	545:M21	29:M21								435:M21	M21	1
M022	545:M22	29:M22								435:M22	M22	1
M022-A	482:(M22)									435:nn	M22A	1
M023	545:M23	29:M23								435:M23	M23	1
M024	545:M24	29:M24								435:M24	M24	1
M024-A				246:M24*	4:M24*						M24B	1
M025	545:M25	29:M25								435:M25	M25	1
M026	545:M26	29:M26								435:M26	M26	1
M027	545:M27	29:M27								435:M27	M27	1
M028	545:M28	29:M28								435:M28	M28	1
M028-A				246:M28*	4:M28*						M140B	1
M029	545:M29	29:M29								435:M29	M29	1
M030	545:M30	29:M30								435:M30	M30	1
M031	545:M31	29:M31								435:M31	M31	1
M031-A				246:M31*	4:M31*						M31D	1
M032	545:M32	29:M32								435:M32	M32	1
M033	545:M33	29:M33								435:M33	M33	1
M033-A		29:M33*								435:M33(a)	M33A	1
M034	545:M34	29:M34								435:M34	M34	1
M035	545:M35	29:M35								435:M35	M35	1

UniKemet database of Egyptian Hieroglyphs for UCS encoding

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
M036	545:M36	29:M36								435:M36	M36	1
M037	545:M37	29:M37								435:M37	M37	1
M038	545:M38	29:M38								435:M38	M38	1
M039	545:M39	29:M39								435:M39	M39	1
M040	545:M40	29:M40								435:M40	M40	1
M040-A		30:M40*									M40D	1
M041	545:M41	30:M41								435:M41	M41	1
M042	545:M42	30:M42								435:M42	M42	1
M043	545:M43	30:M43								435:M43	M43	1
M044	545:M44	30:M44								435:M044	M44	1
M045	191:2000						62:AAd642	58:AAd642	61:AAd641	97:2000		1
M046							62:AAd643	58:AAd643	61:AAd642	97:3000		1
M047							62:AAd644	58:AAd644				1
M048							62:AAd645	58:AAd645				1
M049							62:AAd646	58:AAd646				1
M050							62:AAd647	58:AAd647				1
M051							62:AAd648	58:AAd648				1
M052							62:AAd649	58:AAd649				1
N001	545:N1	31:N1								436:N1	N1	1
N002	545:N2	31:N2								436:N2	N2	1
N003	545:N3	31:N3								436:N3	N3	1
N004	545:N4	31:N4								436:N4	N4	1
N005	545:N5	31:N5								436:N5	N5	1
N006	545:N6	31:N6								436:N6	N6	1
N007	545:N7	31:N7								436:N7	N7	1
N008	545:N8	31:N8								436:N8	N8	1
N009	545:N9	31:N9								436:N9	N9	1
N010	545:N10	31:N10								436:N10	N10	1
N011	545:N11	31:N11								436:N11	N11	1
N012	545:N12	31:N12								436:N12	N12	1
N013	545:N13	31:N13								436:N13	N13	1
N014	545:N14	31:N14								436:N14	N14	1

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
N015	545:N15	31:N15								436:N15	N15	1
N016	545:N16	31:N16								436:N16	N16	1
N017	545:N17	31:N17								436:N17	N17	1
N018	545:N18	31:N18								436:N18	N18	1
N018-A					4:N18*						N102	1
N018-B					4:N18**						N18B	1
N019	545:N19	31:N19								436:N19	N19	1
N020	545:N20	31:N20								436:N20	N20	1
N021	545:N21	31:N21								436:N21	N21	1
N022	545:N22	31:N22								436:N22	N22	1
N023	545:N23	31:N23								436:N23	N23	1
N024	545:N24	31:N24								436:N24	N24	1
N025	545:N25	31:N25								436:N25	N25	1
N025-A		31:N25*									N25A	1
N026	545:N26	31:N26								437:N26	N26	1
N027	545:N27	31:N27								437:N27	N27	1
N028	545:N28	31:N28								437:N28	N28	1
N029	545:N29	31:N29								437:N29	N29	1
N030	545:N30	31:N30								437:N30	N30	1
N031	545:N31	31:N31								437:N31	N31	1
N032	554:N32	31:N32								437:N32	N32	1
N033	545:N33	31:N33								437:N33	N33	1
N033-A	547:(N33)	31:N33*								437:33a	N33A	1
N034	545:N34	31:N34								437:N34	N34	1
N034-A				246:N34*	4:N34*							1
N035	545:N35	31:N35								437:N35	N35	1
N035-A	545:(N35)									437:N35A	N35A	1
N036	545:N36	31:N36								437:N36	N36	1
N037	545:N37	31:N37								437:N37	N37	1
N037-A					4:N37*					437:N37a	N37A	1
N038	545:N38	31:N38								437:N38	N38	1
N039	545:N39	31:N39								437:N39	N39	1

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
N040	545:N40	31:N40								437:N40	N40	1
N041	545:N41	31:N41								437:N41	N41	1
N042	545:N42	31:N42								437:N42	N42	1
NL001					7:NnL1						NL1	1
NL002					7:NnL2						NL2	1
NL003					7:NnL3						NL3	1
NL004					7:NnL4						NL4	1
NL005					7:NnL5						NL5	1
NL005-A					7:NnL5*						NL5A	1
NL006					7:NnL6						NL6	1
NL007					7:NnL7						NL7	1
NL008					7:NnL8						NL8	1
NL009					7:NnL9						NL9	1
NL010					7:NnL10						NL10	1
NL011					7:NnL11						NL11	1
NL012					7:NnL12						NL12	1
NL013					7:NnL13						NL13	1
NL014					7:NnL14						NL14	1
NL015					7:NnL15						NL15	1
NL016					7:NnL16						NL16	1
NL017					7:NnL17						NL17	1
NL017-A					7:NnL17*						NL17A	1
NL018					7:NnL18						NL18	1
NL019					7:NnL19						NL19	1
NL020					7:NnL20						NL20	1
NU001					7:NnU1						NU1	1
NU002					7:NnU2						NU2	1
NU003					7:NnU3						NU3	1
NU004					7:NnU4						NU4	1
NU005					7:NnU5						NU5	1
NU006					7:NnU6						NU6	1
NU007					7:NnU7						NU7	1

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Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
NU008					7:NnU8						NU8	1
NU009					7:NnU9						NU9	1
NU010					7:NnU10						NU10	1
NU010-A					7:NnU10*						NU10A	1
NU011					7:NnU11						NU11	1
NU011-A					7:NnU11*						NU11A	1
NU012					7:NnU12						NU12	1
NU013					7:NnU13						NU13	1
NU014					7:NnU14						NU14	1
NU015					7:NnU15						NU15	1
NU016					7:NnU16						NU16	1
NU017					8:NnU17						NU17	1
NU018					8:NnU18						NU18	1
NU018-A					8:NnU18*						NU18A	1
NU019					8:NnU19						NU19	1
NU020					8:NnU20						NU20	1
NU021					8:NnU21						NU21	1
NU022					8:NnU22						NU22	1
NU022-A					8:NnU22*						NU22A	1
O001	545:O1	32:O1								437:O1	O1	1
O001-A					4:O1*						O54	1
O002	545:O2	32:O2								437:O2	O2	1
O003	545:O3	32:O3								437:O3	O3	1
O004	545:O4	32:O4								437:O4	O4	1
O005	545:O5	32:O5								437:O5	O5	1
O005-A		32:O5*									O5U	1
O006	545:O6	32:O6								437:O6	O6	1
O007	545:O7	32:O7								437:O7	O7	1
O008	545:O8	32:O8								437:O8	O8	1
O009	545:O9	32:O9								437:O9	O9	1
O010	545:O10	32:O10								437:O10	O10	1
O010-A					4:O10*						O10A	1

UniKemet database of Egyptian Hieroglyphs for UCS encoding

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
O010-B						8-1:755:460					O10B	1
O010-C						GITB ref					O18F	1
O011	545:O11	32:O11								437:O11	O11	1
O012	545:O12	32:O12								437:O12	O12	1
O013	545:O13	32:O13								438:O13	O13	1
O014	545:O14	32:O14								438:O14	O14	1
O015	545:O15	32:O15								438:O15	O15	1
O016	545:O16	32:O16								438:O16	O16	1
O017	545:O17	32:O17								438:O17	O17	1
O018	545:O18	32:O18								438:O18	O18	1
O019	545:O19	32:O19								438:O19	O19	1
O019-A					4:O19*						O19A	1
O020	545:O20	32:O20								438:O20	O20	1
O020-A		32:O20*									O20A	1
O021	545:O21	32:O21								438:O21	O21	1
O022	545:O22	32:O22								438:O22	O22	1
O023	545:O23	32:O23								438:O23	O23	1
O024	545:O24	32:O24								438:O24	O24	1
O024-A				246:O24*	4:O24*						O24B	1
O025	545:O25	32:O25								438:O25	O25	1
O025-A				246:O25*	4:O25*						O190	1
O026	545:O26	32:O26								438:O26	O26	1
O027	545:O27	32:O27								438:O27	O27	1
O028	545:O28	32:O28								438:O28	O28	1
O029	545:O29	32:O29								438:O29	O29	1
O030	545:O30	32:O30								438:O30	O30	1
O030-A		32:O30*									O30A	1
O031	545:O31	32:O31								438:O31	O31	1
O032	545:O32	32:O32								438:O32	O32	1
O033	545:O33	32:O33								438:O33	O33	1
O034	545:O34	32:O34								438:O34	O34	1
O035	545:O35	32:O35								438:O35	O35	1

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
O036	545:O36	32:O36								438:O36	O36	1
O037	545:O37	32:O37								438:O37	O37	1
O038	545:O38	32:O38								438:O38	O38	1
O039	545:O39	32:O39								438:O39	O39	1
O040	545:O40	32:O40								438:O40	O40	1
O041	545:O41	32:O41								438:O41	O41	1
O042	545:O42	32:O42								438:O42	O42	1
O043	545:O43	33:O43								438:O43	O43	1
O044	545:O44	33:O44								438:O44	O44	1
O045	545:O45	33:O45								439:O45	O45	1
O046	545:O46	33:O46								439:O46	O46	1
O047	545:O47	33:O47								439:O47	O47	1
O048	545:O48	33:O48								439:O48	O48	1
O049	545:O49	33:O49								439:O49	O49	1
O050	545:O50	33:O50								439:O50	O50	1
O051	545:O51	33:O51								439:O51	O51	1
P001	546:P1	34:P1								439:P1	P1	1
P001-A	546:(P1)									439:P1a	P1A	1
P002	546:P2	34:P2								439:P2	P2	1
P003	546:P3	34:P3								439:P3	P3	1
P003-A		34:P3*								439:P3a	P3B	1
P004	546:P4	34:P4								439:P4	P4	1
P005	546:P5	34:P5								439:P5	P5	1
P006	546:P6	34:P6								439:P6	P6	1
P007	546:P7	34:P7								439:P7	P7	1
P008	546:P8	34:P8								439:P8	P8	1
P009	546:P9	34:P9								439:P9	P9	1
P010	546:P10	34:P10								439:P10	P10	1
P011	546:P11	34:P11								439:P11	P11	1
Q001	546:Q1	34:Q1								439:Q1	Q1	1
Q002	546:Q2	34:Q2								439:Q2	Q2	1
Q003	546:Q3	34:Q3								439:Q3	Q3	1

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
Q004	546:Q4	34:Q4								439:Q4	Q4	1
Q005	546:Q5	34:Q5								439:Q5	Q5	1
Q006	546:Q6	34:Q6								439:Q6	Q6	1
Q007	546:Q7	34:Q7								439:Q7	Q7	1
R001	546:R1	35:R1								440:R1	R1	1
R002	546:R2	35:R2								440:R2	R2	1
R002-A					5:R2*					440:R36a	R2C	1
R003	546:R3	35:R3								440:R3	R3	1
R003-A					5:R3*						R3P	1
R003-B					5:R3**						R3PA	1
R004	546:R4	35:R4								440:R4	R4	1
R005	546:R5	35:R5								440:R5	R5	1
R006	546:R6	35:R6								440:R6	R6	1
R007	546:R7	35:R7								440:R7	R7	1
R008	546:R8	35:R8								440:R8	R8	1
R009	546:R9	35:R9								440:R9	R9	1
R010	546:R10	35:R10								440:R10	R10	1
R010-A		35:R10*								440:R50	R10I	1
R011	546:R11	35:R11								440:R11	R11	1
R012	546:R12	35:R12								440:R12	R12	1
R013	546:R13	35:R13								440:R13	R13	1
R014	546:R14	35:R14								440:R14	R14	1
R015	546:R15	35:R15								440:R15	R15	1
R016	546:R16	35:R16								440:R16	R16	1
R016-A				246:R16*	5:R16*						R16B	1
R017	546:R17	35:R17								440:R17	R17	1
R018	546:R18	35:R18								440:R18	R18	1
R019	546:R19	35:R19								440:R19	R19	1
R020	546:R20	35:R20								440:R20	R20	1
R021	546:R21	35:R21								440:R21	R21	1
R022	546:R22	35:R22								440:R22	R22	1
R023	546:R23	35:R23								440:R23	R23	1

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
R024	546:R24	35:R24								440:R24	R24	1
R025	546:R25	35:R25								440:R25	R25	1
R026				246:R26	5:R26						R26	1
R027					5:R27						R133	1
R028					5:R28						R129	1
R029					5:R29						O196	1
S001	546:S1	36:S1								440:S1	S1	1
S002	546:S2	36:S2								440:S2	S2	1
S002-A					5:S2*						S56	1
S003	546:S3	36:S3								440:S3	S3	1
S004	546:S4	36:S4								440:S4	S4	1
S005	546:S5	36:S5								440:S5	S5	1
S006	546:S6	36:S6								440:S6	S6	1
S006-A					5:S6*						S48	1
S007	546:S7	36:S7								441:S7	S7	1
S008	546:S8	36:S8								441:S8	S8	1
S009	546:S9	36:S9								441:S9	S9	1
S010	546:S10	36:S10								441:S10	S10	1
S011	546:S11	36:S11								441:S11	S11	1
S012	546:S12	36:S12								441:S12	S12	1
S013	546:S13	36:S13								441:S13	S13	1
S014	546:S14	36:S14								441:S14	S14	1
S014-A	546:S14*				5:S14*					441:S14A	S14A	1
S014-B					5:S14**						S14D	1
S015	546:S15	36:S15								441:S15	S15	1
S016	546:S16	36:S16								441:S16	S16	1
S017	546:S17	36:S17								441:S17	S17	1
S017-A	546:S17*				5:S17*					441:S17A	S17A	1
S018	546:S18	36:S18								441:S18	S18	1
S019	546:S19	36:S19								441:S19	S19	1
S020	546:S20	36:S20								441:S20	S20	1
S021	546:S21	36:S21								441:S21	S21	1

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
S022	546:S22	36:S22								441:S22	S22	1
S023	546:S23	36:S23								441:S23	S23	1
S024	546:S24	36:S24								441:S24	S24	1
S025	546:S25	36:S25								441:S25	S25	1
S026	546:S26	36:S26								441:S26	S26	1
S027	546:S27	36:S27								441:S27	S27	1
S028	546:S28	36:S28								441:S28	S28	1
S029	546:S29	36:S29								441:S29	S29	1
S030	546:S30	36:S30								441:S30	S30	1
S031	546:S31	36:S31								441:S31	S31	1
S032	546:S32	36:S32								441:S32	S32	1
S033	546:S33	36:S33								441:S33	S33	1
S034	546:S34	36:S34								441:S34	S34	1
S035	546:S35	36:S35								442:S35	S35	1
S035-A		36:S35*									S35A	1
S036	546:S36	36:S36								442:S36	S36	1
S037	546:S37	36:S37								442:S37	S37	1
S038	546:S38	36:S38								442:S38	S38	1
S039	546:S39	36:S39								442:S39	S39	1
S040	546:S40	36:S40								442:S40	S40	1
S041	546:S41	36:S41								442:S41	S41	1
S042	546:S42	36:S42								442:S42	S42	1
S043	546:S43	36:S43								442:S43	S43	1
S044	546:S44	35:S44								442:S44	S44	1
S045	546:S45	36:S45								442:S45	S45	1
S046					5:S46						S50	1
T001	546:T1									442:T1	T1	1
T002	546:T2									442:T2	T2	1
T003	546:T3									442:T3	T3	1
T003-A					5:T3*						T43	1
T004	546:T4									442:T4	T4	1
T005	546:T5									442:T5	T5	1

UniKemet database of Egyptian Hieroglyphs for UCS encoding

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
T006	546:T6									442:T6	T6	1
T007	546:T7									442:T7	T7	1
T007-A	546:T7*				5:T7*					442:T7A	T7A	1
T008	546:T8									442:T8	T8	1
T008-A	546:T8*				5:T8*					442:T8A	T8A	1
T009	546:T9									442:T9	T9	1
T009-A	546:T9*				5:T9*					442:T9A	T9A	1
T010	546:T10									442:T10	T10	1
T011	546:T11									442:T11	T11	1
T011-A						8-2:065:700					T60	1
T012	546:T12									442:T12	T12	1
T013	546:T13									442:T13	T13	1
T014	546:T14									443:T14	T14	1
T015	546:T15									443:T15	T15	1
T016	546:T16									443:T16	T16	1
T016-A				246:T16*	5:T36						T16A	1
T017	546:T17									443:T17	T17	1
T018	546:T18									443:T18	T18	1
T019	546:T19									443:T19	T19	1
T020	546:T20									443:T20	T20	1
T021	546:T21									443:T21	T21	1
T022	546:T22									443:T22	T22	1
T023	546:T23									443:T23	T23	1
T024	546:T24									443:T24	T24	1
T025	546:T25									443:T25	T25	1
T026	546:T26									443:T26	T26	1
T027	546:T27									443:T27	T27	1
T028	546:T28									443:T28	T28	1
T029	546:T29									443:T29	T29	1
T030	546:T30									443:T30	T30	1
T031	546:T31									443:T31	T31	1
T032	546:T32									443:T32	T32	1

UniKemet database of Egyptian Hieroglyphs for UCS encoding

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
T032-A					5:T32*						T32B	1
T033	546:T33									443:T33	T33	1
T033-A					5:T33*						T33B	1
T034	546:T34									443:T34	T34	1
T035	546:T35									443:T35	T35	1
T036				247:T36	5:T37						T141	1
U001	546:U1	38:U1								443:U1	U1	1
U002	546:U2	38:U2								443:U2	U2	1
U003	546:U3	38:U3								443:U3	U3	1
U004	546:U4	38:U4								443:U4	U4	1
U005	546:U5	38:U5								443:U5	U5	1
U006	546:U6	38:U6								443:U6	U6	1
U006-A					5:U6*						U6A	1
U006-B					5:U6**						U6B	1
U007	546:U7	38:U7								443:U7	U7	1
U008	546:U8	38:U8								443:U8	U8	1
U009	546:U9	38:U9								443:U9	U9	1
U010	546:U10	38:U10								443:U10	U10	1
U011	546:U11	38:U11								443:U11	U11	1
U012	546:U12	38:U12								443:U12	U12	1
U013	546:U13	38:U13								443:U13	U13	1
U014	546:U14	38:U14								443:U14	U14	1
U015	546:U15	38:U15								443:U15	U15	1
U016	546:U16	38:U16								444:U16	U16	1
U017	546:U17	38:U17								444:U17	U17	1
U018	546:U18	38:U18								444:U18	U18	1
U019	546:U19	38:U19								444:U19	U19	1
U020	546:U20	38:U20								444:U20	U20	1
U021	546:U21	38:U21								444:U21	U21	1
U022	546:U22	38:U22								444:U22	U22	1
U023	546:U23	38:U23								444:U23	U23	1
U023-A				247:U23*	5:U23*						U23F	1

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
U024	546:U24	38:U24								444:U24	U24	1
U025	546:U25	38:U25								444:U25	U25	1
U026	546:U26	38:U26								444:U26	U26	1
U027	546:U27	38:U27								444:U27	U27	1
U028	546:U28	38:U28								444:U28	U28	1
U029	546:U29	38:U29								444:U29	U29	1
U029-A					5:U29*						U29A	1
U030	546:U30	38:U30								444:U30	U30	1
U031	546:U31	38:U31								444:U31	U31	1
U032	546:U32	38:U32								444:U32	U32	1
U032-A				247:Ff7								1
U033	546:U33	38:U33								444:U33	U33	1
U034	546:U34	38:U34								444:U34	U34	1
U035	546:U35	38:U35								444:U35	U35	1
U036	546:U36	38:U36								444:U36	U36	1
U037	546:U37	38:U37								444:U37	U37	1
U038	546:U38	38:U38								444:U38	U38	1
U039	546:U39	38:U39								444:U39	U39	1
U040	546:U40	38:U40								444:U40	U40	1
U041	546:U41	38:U41								444:U41	U41	1
U042	546:(O30)									443:U109	O30U	1
V001	546:V1	39:V1					61:AAc632	57:AAc632	61:AAc632	444:V1	V1	1
V002	546:V2	39:V2								444:V2	V2	1
V002-A				247:Ff6								1
V003	546:V3	39:V3								444:V3	V3	1
V004	546:V4	39:V4								444:V4	V4	1
V005	546:V5	39:V5								444:V5	V5	1
V006	546:V6	39:V6								444:V6	V6	1
V007	546:V7	39:V7								444:V7	V7	1
V007-A					6:V7*						V7A	1
V007-B			95:Ff2									1
V008	546:V8	39:V8								444:V8	V8	1

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
V009	546:V9	39:V9								444:V9	V9	1
V010	546:V10	39:V10								445:V10	V10	1
V011	546:V11	39:V11								445:V11	V11	1
V011-A		39:V11*a									V11A	1
V011-B		39:V11*a'									V11B	1
V012	546:V12	39:V12								445:V12	V12	1
V012-A					6:V12*						V12A	1
V012-B					6:V12**						V12B	1
V013	546:V13	39:V13								445:V13	V13	1
V014	546:V14	39:V14								445:V14	V14	1
V015	546:V15	39:V15								445:V15	V15	1
V016	546:V16	39:V16								445:V16	V16	1
V017	546:V17	39:V17								445:V17	V17	1
V018	546:V18	39:V18								445:V18	V18	1
V019	546:V19	39:V19								445:V19	V19	1
V020	546:V20	39:V20					60:AAb623	56:AAb623		445:V20	V20	1
V020-A	191:10						63:BB665	60:BB665	62:BB665		V20S	1
V021	546:V21	39:V21								445:V21	V21	1
V022	546:V22	39:V22								445:V22	V22	1
V023	546:V23	39:V23								445:V23	V23	1
V023-A				247:V23*	6:V23*							1
V024	546:V24	39:V24								445:V24	V24	1
V025	546:V25	39:V25								445:V25	V25	1
V026	546:V26	39:V26								445:V26	V26	1
V027	546:V27	39:V27								445:V2[7]	V27	1
V028	546:V28	39:V28								445:V28	V28	1
V028-A					6:V28*						V71	1
V029	546:V29	39:V29								445:V29	V29	1
V029-A				247:V29*	6:V29*						V81	1
V030	546:V30	39:V30								445:V30	V30	1
V030-A		39:V30*										1
V031	546:V31	39:V31								445:V31	V31	1

UniKemet database of Egyptian Hieroglyphs for UCS encoding

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
V031-A	546:V31*	39:V31*								445:V31a	V31A	1
V032	546:V32	39:V32								445:V32	V32	1
V033	546:V33	39:V33								445:V33	V33	1
V033-A						8-4:10:299					V33A	1
V034	546:V34	39:V34								445:V34	V34	1
V035	546:V35	39:V35								445:V35	V35	1
V036	546:V36	39:V36								445:V36	V36	1
V037	546:V37	39:V37								445:V37	V37	1
V037-A					6:V37*						V37A	1
V038	546:V38	39:V38								445:V38	V38	1
V039	546:V39			247:V39	6:V39*					445:V39	V39	1
V040	199:200						61:AAc633	57:AAc633	61:AAc633	99:200		1
V041	194:300						61:AAc634	57:AAc634	61:AAc634	101:300		1
V042							61:AAc635	57:AAc635	61:AAc635	106:400		1
V042-A												1
V043							61:AAc636					1
V043-A	201:500						61:AAc636s	57:AAc636	61:AAc636			1
V044							61:AAc637					1
V044-A	192:600						61:AAc637s	57:AAc637	61:AAc637	97:600		1
V045							61:AAc638					1
V045-A	200:700						61:AAc638s	57:AAc638	61:AAc638	107:700		1
V046							61:AAc639	57:AAc639	61:AAc639			1
V047	201:900						61:AAc640	57:AAc640	61:AAc640			1
V047-A	191:900											1
V048	191:20						60:AAb624			97:20		1
V048-A	192:20							56:AAb624	60:AAb624	100:20		1
V048-B	201:20						64:BB666	60:BB666	62:BB666			1
V049	194:30									106:30		1
V049-A	201:30						60:AAb625	56:AAb625	60:AAb625	99:30		1
V050							60:AAb626		60:AAb626			1
V050-A	198:40							56:AAb626		107:40		1
V051	191:50											1

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Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
V051-A	197:50						60:AAb627	56:AAb627	60:AAb627	107:50		1
V052	194:60						60:AAb628	56:AAb628	60:AAb628	101:60		1
V053	192:70						60:AAb629	56:AAb629	60:AAb629			1
V054	196:80						60:AAb630	56:AAb630	60:AAb630	102:80		1
V055							60:AAb631	56:AAb631	60:AAb631			1
W001	547:W1	40:W1								445:W1	W1	1
W002	547:W2	40:W2								446:W2	W2	1
W003	547:W3	40:W3								446:W3	W3	1
W003-A		40:W3*									W3B	1
W004	547:W4	40:W4								446:W4	W4	1
W005	547:W5	40:W5								446:W5	W5	1
W006	547:W6	40:W6								446:W6	W6	1
W007	547:W7	40:W7								446:W7	W7	1
W008	547:W8	40:W8								446:W8	W8	1
W009	547:W9	40:W9								446:W9	W9	1
W009-A					6:W9*						W9D	1
W010	547:W10	40:W10								446:W10	W10	1
W010-A	547:W10*				6:W10*					446:W10A	W10A	1
W011	547:W11	40:W11								446:W11	W11	1
W012	547:W12	40:W12								446:W12	W12	1
W013	547:W13	40:W13								446:W13	W13	1
W014	547:W14	40:W14								446:W14	W14	1
W014-A		40:W14*										1
W015	547:W15	40:W15								446:W15	W15	1
W016	547:W16	40:W16								446:W16	W16	1
W017	547:W17	40:W17								446:W17	W17	1
W017-A					6:W18*					446:W17a		1
W018	547:W18	40:W18								446:W18	W18	1
W019	547:W19	40:W19								446:W19	W19	1
W020	547:W20	40:W20								446:W20	W20	1
W021	547:W21	40:W21								446:W21	W21	1
W022	547:W22	40:W22								446:W22	W22	1

UniKemet database of Egyptian Hieroglyphs for UCS encoding

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
W023	547:W23	40:W23								446:W23	W23	1
W024	547:W24	40:W24								446:W24	W24	1
W024-A		40:W24*									W24A	1
W025	547:W25	40:W25								446:W25	W25	1
X001	547:X1	41:X1								446:X1	X1	1
X002	547:X2	41:X2								446:X2	X2	1
X003	547:X3	41:X3								446:X3	X3	1
X004	547:X4	41:X4								447:X4	X4	1
X004-A		41:X4*								447:X4a	X4A	1
X005	547:X5	41:X5								447:X5	X5	1
X006	547:X6	41:X6								447:X6	X6	1
X006-A		41:X6*										1
X007	547:X7	41:X7								447:X7	X7	1
X008	547:X8	41:X8								447:X8	X8	1
Y001	547:Y1	41:Y1								447:Y1	Y1	1
Y002	547:Y2	41:Y2								447:Y2	Y2	1
Y003	547:Y3	41:Y3								447:Y3	Y3	1
Y004	547:Y4	41:Y4								447:Y4	Y4	1
Y005	547:Y5	41:Y5								447:Y5	Y5	1
Y006	547:Y6	41:Y6								447:Y6	Y6	1
Y007	547:Y7	41:Y7								447:Y7	Y7	1
Y008	547:Y8	41:Y8								447:Y8	Y8	1
Z001	547:Z1	42:Z1					59:AAa614	55:AAa614	59:AAa614	447:Z1	Z1	1
Z001-A							63:BB656				Z1A	1
Z002	547:Z2	42:Z2								447:Z2	Z2	1
Z002-A		42:Z2*					59:AAa616	55:AAa616	59:AAa616	447:Z2(a)	Z2D	1
Z003	547:Z3	42:Z3								447:Z3	Z3	1
Z003-A		42:Z2 also								447:Z3a	Z3A	1
Z003-B						8-4:5:654	64:BB658	60:BB658	62:BB658		Z3B	1
Z004	547:Z4	42:Z4								447:Z4	Z4	1
Z005	547:Z5	42:Z5								447:Z5	Z5	1
Z005-A		42:Z5*									Z5A	1

UniKemet database of Egyptian Hieroglyphs for UCS encoding

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
Z006	547:Z6	42:Z6								447:Z6	Z6	1
Z007	547:Z7	42:Z7								447:Z7	Z7	1
Z007-A			95:Ff1		6:Ff1							1
Z008	547:Z8	42:Z8								447:Z8	Z8	1
Z009	547:Z9	42:Z9								447:Z9	Z9	1
Z010	547:Z10	42:Z10								447:Z10	Z10	1
Z011	547:Z11	42:Z11								447:Z11	Z11	1
Z012			95:Z12								Z12	1
Z013					6:Z13							1
Z014	192:2						59:AAa615	55:AAa615	59:AAa615	447:Z49		1
Z014-A	191:2						63:BB657	59:BB65[7]	61:BB657	103:2		1
Z015	191:4						59:AAa617	55:AAa617	59:AAa617	97:4		1
Z015-A	192:4									100:4		1
Z015-B	191:4						64:BB659	60:BB659	62:BB659			1
Z016	191:5						59:AAa618	55:AAa618	59:AAa618	447:Z(2d)		1
Z016-A	192:5									97:5		1
Z016-B	191:5									103:5		1
Z016-C	191:5						64:BB660	60:BB660	62:BB660			1
Z017	191:6						59:Aa619	55:AAa619	59:Aa619	99:6		1
Z017-A	192:6									102:6		1
Z017-B							64:BB661	60:BB661	62:BB661			1
Z018	196:7						59:AAa620	55:AAa620	59:AAa620			1
Z018-A	191:7									97:7		1
Z018-B							64:BB662	60:BB662	62:BB662	103:7		1
Z019	198:8						59:AAa621	55:AAa621	59:AAa621			1
Z019-A	191:8									102:8		1
Z019-B	191:8						64:BB663	60:BB663	62:BB663			1
Z020	197:9						59:AAa622	55:AAa622				1
Z020-A							59:AAa622n		59:AAa622	106:9		1
Z020-B								60:BB664				1
Z020-C							64:BB664	60:BB664n	62:BB664			1
ZA001	547:Aa1	43:Aa1								448:Aa1	AA1	1

UniKemet database of Egyptian Hieroglyphs for UCS encoding

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
ZA002	547:Aa2	43:Aa2								448:Aa2	AA2	1
ZA003	547:Aa3	43:Aa3								448:Aa3	AA3	1
ZA004	547:Aa4	43:Aa4								448:Aa4	AA4	1
ZA005	547:Aa5	43:Aa5								448:Aa5	AA5	1
ZA006	547:Aa6	43:Aa6								448:Aa6	AA6	1
ZA007	547:Aa7	43:Aa7								448:Aa7	AA7	1
ZA007-A		43:Aa7*									AA7A	1
ZA007-B				247:Aa7**	6:Aa7**						AA7B	1
ZA008	547:Aa8	43:Aa8								448:Aa8	AA8	1
ZA009	547:Aa9	43:Aa9								448:Aa9	AA9	1
ZA010	547:Aa10	43:Aa10								448:Aa10	AA10	1
ZA011	547:Aa11	43:Aa11								448:Aa11	AA11	1
ZA012	547:Aa12	43:Aa12								448:Aa12	AA12	1
ZA013	547:Aa13	43:Aa13								448:Aa13	AA13	1
ZA014	547:Aa14	43:Aa14								448:Aa14	AA14	1
ZA015	547:Aa15	43:Aa15								448:Aa15	AA15	1
ZA016	547:Aa16	43:Aa16								448:Aa16	AA16	1
ZA017	547:Aa17	43:Aa17								448:Aa17	AA17	1
ZA018	547:Aa18	43:Aa18								448:Aa18	AA18	1
ZA019	547:Aa19	43:Aa19								448:Aa19	AA19	1
ZA020	547:Aa20	43:Aa20								448:Aa20	AA20	1
ZA021	547:Aa21	43:Aa21								448:Aa21	AA21	1
ZA022	547:Aa22	43:Aa22								448:Aa22	AA22	1
ZA023	546:Aa23	43:Aa23								448:Aa23	AA23	1
ZA024	546:Aa24	43:Aa24								448:Aa24	AA24	1
ZA025	547:Aa25	43:Aa25								448:Aa25	AA25	1
ZA026	547:Aa26	43:Aa26								448:Aa26	AA26	1
ZA027	547:Aa27	43:Aa27								448:Aa27	AA27	1
ZA028	547:Aa28	43:Aa28								448:Aa28	AA28	1
ZA029	547:Aa29	43:Aa29								448:Aa29	AA29	1
ZA030	547:Aa30	43:Aa30								448:Aa30	AA30	1
ZA031	547:Aa31	43:Aa31								448:Aa31	AA31	1

UniKemet database of Egyptian Hieroglyphs for UCS encoding

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
ZA032	546:Aa32	43:Aa32								448:Aa32	AA32	1
ZF008					6:Ff8							1
ZF008-A					6:Ff8*							1
A025-A										424:A25(a)		2
A071										423:A84		2
A072										423:A119		2
A073										424:A97		2
A074										424:A366		2
A075										424:A359		2
A076										424:A166		2
B010										425:B24		2
C025										426:C175a		2
D007-A										426:D7a		2
D024-A										427:D24a		2
D081-A										97:70000		2
D084										426:D140		2
D085										427:D154		2
D086										427:D212a		2
D087										427:D218a		2
D088										427:D251		2
D089										428:D279		2
D090										428:D280a		2
E039										428:E166		2
E040										428:E176		2
E041										428:E177		2
E042										428:E128		2
G014-A										431:G14a		2
G048-A										432:G48a		2
H006-B										433:H6b		2
I016										433:I64		2
L007-A										434:L7a		2
M033-C										435:M33(b)		2

UniKemet database of Egyptian Hieroglyphs for UCS encoding

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
M043-A										435:M43a		2
M043-B										435:M43b		2
M053										435:M163		2
M054										435:Y10		2
N005-A										436:N5a		2
N005-B										436:N5(b)		2
N016-A										436:N16d		2
N023-A										436:N23(a)		2
N031-A										437:N31e		2
N033-B										437:N33c		2
N034-B										437:N34a		2
N043										437:N46b		2
N044										437:N64		2
N045										437:N76		2
O015-A										438:O15a		2
O031-A										438:O31a		2
O031-B										438:O31(b)		2
O044-A										438:O44a		2
O049-A										439:O49a		2
O051-A										439:O51b		2
O052										437:O104		2
P001-B										439:P26		2
P001-C										439:P1c		2
P003-B										439:P30		2
P003-C										439:P34		2
P003-D										439:P3a		2
P004-A										439:P4a		2
P005-A										439:P5f		2
R010-B										440:R10e		2
R015-A										440:R15b		2
R017-A										440:R17b		2
R022-A										440:R22a		2

UniKemet database of Egyptian Hieroglyphs for UCS encoding

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
R023-A										440:R23a		2
R024-A										440:R24a		2
R024-B										440:R24b		2
R024-C										440:R24c		2
R025-A										440:R25a		2
R025-B										440:R25b		2
R030										440:R61		2
S012-A										441:S12a		2
S027-A										441:S116		2
S027-B										441:S118		2
S028-A										441:V48		2
S040-A										442:S40a		2
S042-A										442:S42a		2
S047										442:S130a		2
U006-C										443:U6a		2
U007-A										443:U7a		2
U040-A										444:U40a		2
U042-A										443:U109a		2
V001-A										444:V1a		2
V016-A										445:V16a		2
V032-A										445:V96		2
V040-A										107:200		2
V041-A										107:300		2
V052-A										107:60		2
W018-A										446:W18a	W17C	2
W024-B										446:W24a		2
W026										446:W54		2
W027										446:W59		2
X004-B										447:X4b		2
Y001-A										447:Y1a		2
Z002-B	59:3									447:Z2b		2
Z002-C										447:Z2c		2

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
Z003-C										447:Z3(b)		2
Z020-D										107:9		2
ZA005-A										448:Aa5a		2
O006-A	72:serekh									64:serekh		3
O006-B												3
O006-C												3
O006-D												3
O006-E												3
O006-F												3
O033-A	72:serekh									64:serekh		3
V011-C												3
K006-A	477:K6(a)	28:K6(a)								434:K6(v)	K6B	4
L003-A	545:L3									434:L3	L3	4
M003-B	479:M3(v)	29:M3(v)								434:M3(v)	M3B	4
M033-B	483:M33(b)											4
N011-A	486:N11(a)	31:N11(b)								436:N11(d)	N11VR	4
N011-B	486:N11(b)	31:N11(a)									N11V	4
N012-A		31:N12(a)								436:N12(d)	N12VR	4
N012-B	468:N12(a)	31:N11(b)									N12V	4
N012-C	468:N12(b)											4
N033-C	490:N33(a)	31:N33(v)								437:N33(b)	N33AV	4
O029-A	496:O29(a)	32:O29(a)								438:O29(v)	O29V	4
O031-C		32:O31(a)									O31V	4
O031-D		32:O31(b)									O31VR	4
O036-A	496:O36(h)	32:O36(h)									O36H	4
P008-A	499:P8(h)	34:P8(b)								439:P8(v)	P8H	4
P008-B		34:P8(a)										4
R024-D	503:R24(v)	35:R24(v)								440:R24(v)	R24V	4
T010-A	511:T10(d)	37:T10(v)									T10V	4
U031-A		38:U31(v)									U31V	4
V026-A		39:V26(v)									V26V	4
V027-A	525:V26(v)	39:V27(v)									V27V	4

UniKemet database of Egyptian Hieroglyphs for UCS encoding

Name	G1957	G1928	G1929	G1931	G1953	GITB	M1909	M1927	M1936	A1999	C2005	Amd
W002-A	527:W2(a)	40:W2(h)									W2H	4
Y001-B	533:Y1(v)	41:Y1(v)								447:Y1(v)	Y1V	4
Y002-A	533:Y2(v)	41:Y2(v)									Y2V	4
ZA011-A	541:Aa11(a)	43:Aa11(a)								448:Aa11(a)	AA11V	4
ZA011-B	541:Aa11(b)	43:Aa11(b)								448:Aa11(b)	AA11VA	4
ZA030-A	543:Aa30(h)	44:Aa30(h)									AA30H	4
ZA032-A	512:Aa32(a)	43:Aa32(h)								448:Aa32(v)	AA32H	4
ZA032-B	512:Aa32(b)	43:Aa32(r)									AA32A	4